Welcome

Thank you for purchasing a Sony VAIO® computer! Your new computer is a superb blend of high technology and easy-to-use functionality. The information provided here is designed to help you to become familiar with the hardware and software programs included with your computer.

- View the Electronic Flyer, which provides updates and supplemental information about your computer.
- Go to the Sony online support Web site, to view the VAIO® Computer Specifications, which lists your computer's hardware specifications and preinstalled software information.
- For information about the Sony software preinstalled on your computer, click **Start** in the Windows® taskbar, and then click **Welcome to VAIO life**.

Getting Started

Congratulations on your purchase of the Sony VAIO® computer! Your new, high-performance, multimedia computer combines state-of-the-art computer functionality with the latest audio, video and information technology features.

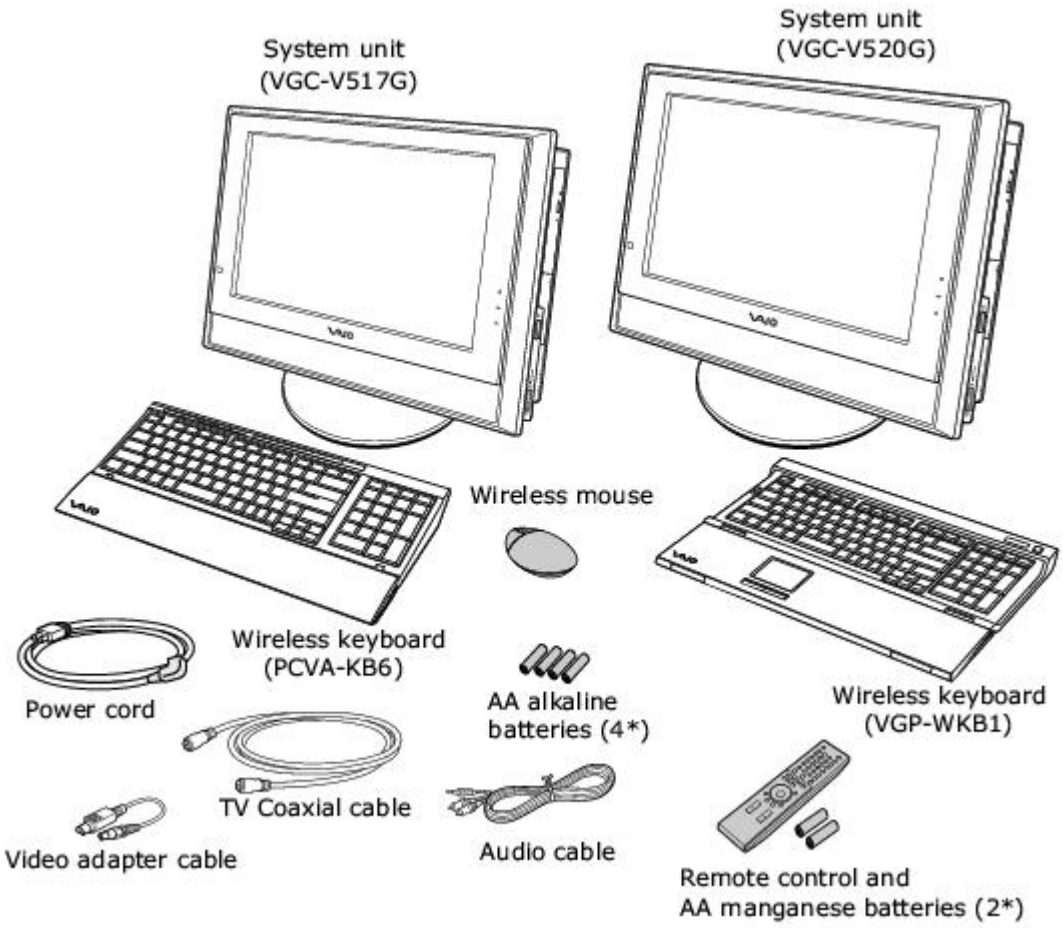
- Unpacking Your Computer
- Planning an Ergonomic Work Space

Unpacking Your Computer

Your computer may not be supplied with all of the accessories shown, depending on the system configuration purchased. For details on the accessories supplied with your computer, go to the Sony Online Support Web site at http://www.sony.com/pcsupport, to view the online specifications sheet.

Your VAIO® computer is not supplied with System or Application Recovery CDs. Use the VAIO Recovery Wizard utility program to recover your computer's operating system and preinstalled software.

Computer and supplied accessories



*The VGC-V520G model is supplied with six (6) "AA" alkaline batteries for the wireless keyboard and mouse, and two (2) "AA" manganese batteries for the remote control. The VGC-517G model is supplied with two (2) "AA" alkaline batteries for the wireless mouse, and four (4) "AA" manganese batteries for the wireless keyboard and remote control.

Manuals

- ***VAIO® Computer Safety Information —*** Provides safety/legal guidelines and owner information.
- ***VAIO® Computer Welcome —*** Provides information about supplied accessories and your computer's hardware configuration.

Online Documentation

- ***VAIO® Computer User Guide —*** Contains information on the hardware and preinstalled software programs included with your system.

  To access the online User Guide:

  1. Click **Start** in the Windows taskbar, then click **Help and Support**.
  2. From the **VAIO Help and Support Center** menu, click **VAIO User Guide**.

- ***Specifications*** — The online specifications sheet describes the hardware and software configuration of your VAIO computer.

  To view the online specifications sheet:

1. Connect to the Internet.
2. Go to the Sony online support Web site at *http://www.sony.com/pcsupport*.
3. Click the **Documentation** link and follow the on-screen instructions to locate your model's specifications sheet.

Creating CDs or DVDs with Sony software

- **Create picture & video with:**

  DVDs with Click to DVD software — Make picture or personal video DVDs. Use JPEG, BMP, of TIFF files for slide shows; import MPEG, AVI, or Microsoft® DVR-MS files for video, or capture footage from an i.LINK / IEEE 1394 camera or analog source.

- **Create music CDs with:**

  SonicStage software — Burn music CDs from MP3, WMA, WAV, and OpenMG files; create ATRAC CDs for your Sony ATRAC CD Walkman; or make backup copies of your CDs.

  SonicStage Mastering Studio software — Burn music CDs of your collection of vinyl records or cassette tapes.

  Sonic RecordNow!® software — Burn music CDs from MP3, WMA, WAV, and CDA files, or make backup copies of your CDs.

- **Back up your data with:**

  Sonic RecordNow!® software — Drag-and-drop to make custom data CDs or DVDs, or make backup copies of your CDs and DVDs.

For more information about using the Sony software programs preinstalled on your computer, visit **VAIO Life**.

To access this software information:

1. Click **Start** in the Windows® taskbar.
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Hard Disk Drive Recovery

Your computer is equipped with the VAIO Recovery Wizard, a utility program that enables you to recover your computer's operating system and preinstalled software.

For more information about hard disk recovery

1. Click **Start** in the Windows® taskbar, then click **Help and Support**.
2. From the **VAIO Help and Support Center** menu, click **VAIO Recovery Options**.

✍ You can create a VAIO Recovery Media Kit using CD-R, single layer DVD+R, or single layer DVD-R media on VAIO computers equipped with the appropriate optical drive (a CD-RW, DVD-RW, or DVD±RW drive).

DVD+RW, DVD-RW, double layer DVD+R, and double layer DVD-R media (when it becomes available) cannot be used to create a VAIO Recovery Media Kit.

Other

A software library containing the Microsoft® software and Sony® end-user license agreements.

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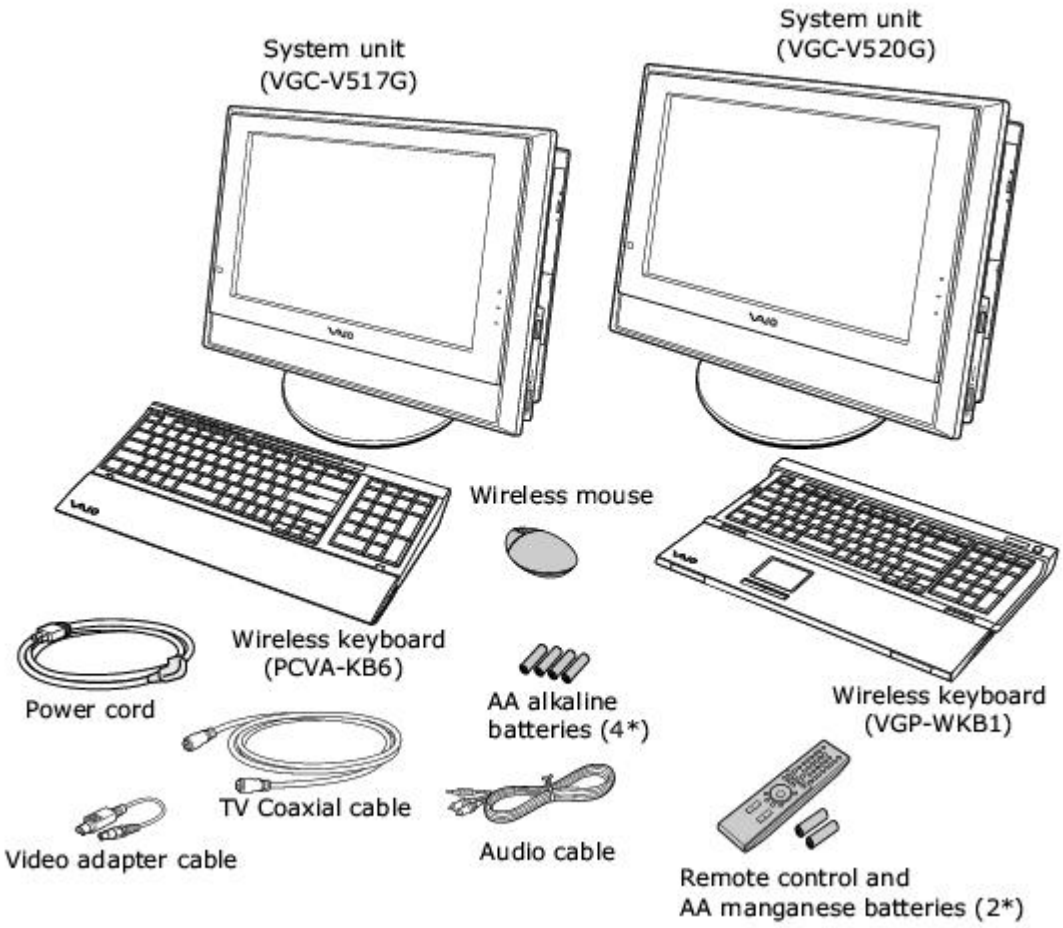

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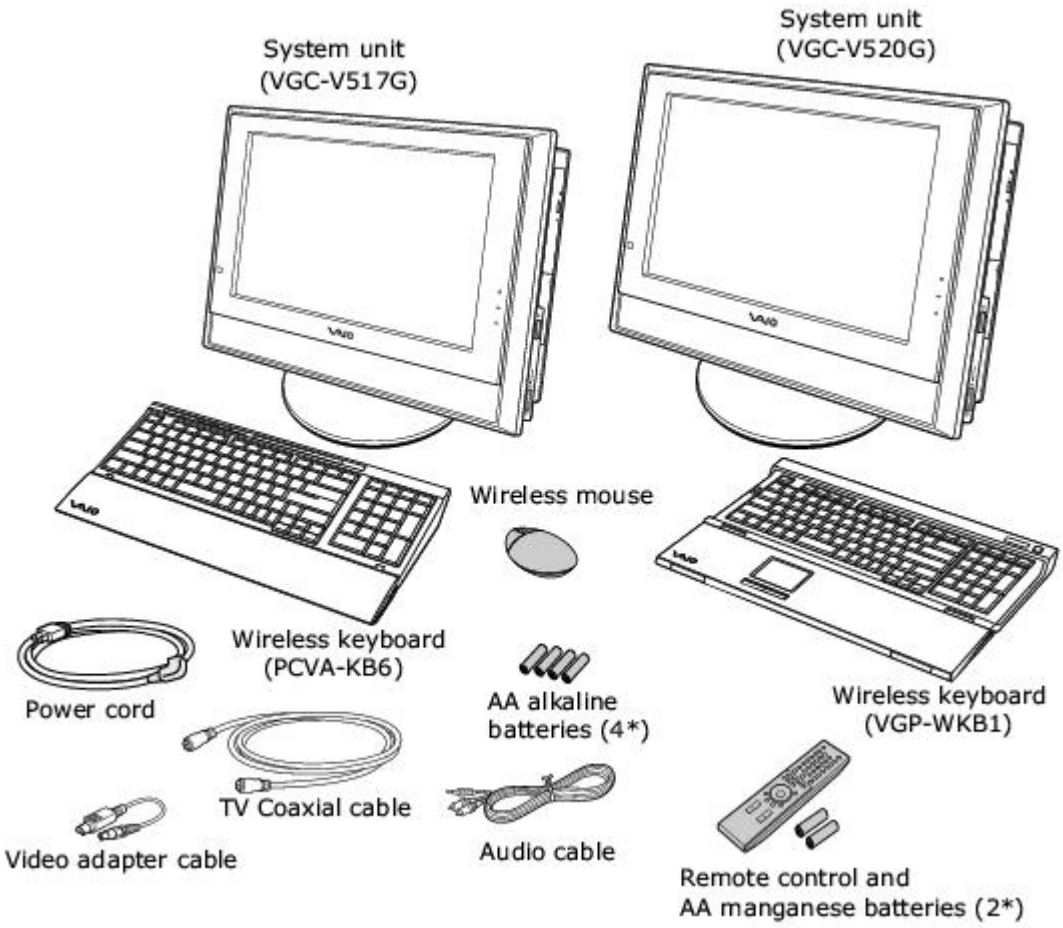

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Other

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Planning an Ergonomic Work Space

Before you set up your new computer, find the best location for your new computer and plan your work space. There are several ergonomic factors to consider when you arrange your work space:

- **Stable work surface —** Use a stable work surface large enough to support the computer and other peripheral equipment.
- **Ventilation —** Leave at least eight inches of space on both sides of your computer and at least 5 inches of clearance for the back.
- **Placement of the mouse, keyboard, and other input devices —** Place your computer, mouse, or other input devices so that your arms and hands are in a relaxed, comfortable position. The computer's keyboard should be directly in front of you. Keep your wrists in a relaxed position when you are using the keyboard — not angled up or down. Position the mouse at the same level as the keyboard. Hold the mouse with a relaxed hand, and use your whole arm to move it. Take occasional breaks during sessions with your computer, as excessive use of the mouse, keyboard, or joystick may strain muscles or tendons.
- **Furniture and posture —** Sit in a chair with good back support and armrests. Adjust the level of the chair so your feet are flat on the floor. A footrest may make you more comfortable. Sit with relaxed, upright posture — avoid slouching forward or leaning far backward.
- **Viewing angle of the display —** Position the unit so that the display is 18 to 26 inches directly in front of you, with the top of the screen at or a little below eye level. Use the display's tilting feature to find the best position. You can reduce eye strain and muscle fatigue by placing the display in the proper position.
- **Lighting —** Choose a location where windows and lights do not create glare and reflection on the display. Use indirect lighting to avoid bright spots on the display. You can also purchase accessories for your display that help reduce glare. Proper lighting adds to your comfort and work effectiveness.

 The infrared receiver, located on the front panel of your computer, communicates with the supplied wireless mouse, keyboard, and remote control. The infrared receiver must be visible in a line-of-sight with your wireless devices to enable them to function properly.

Locating Controls and Ports

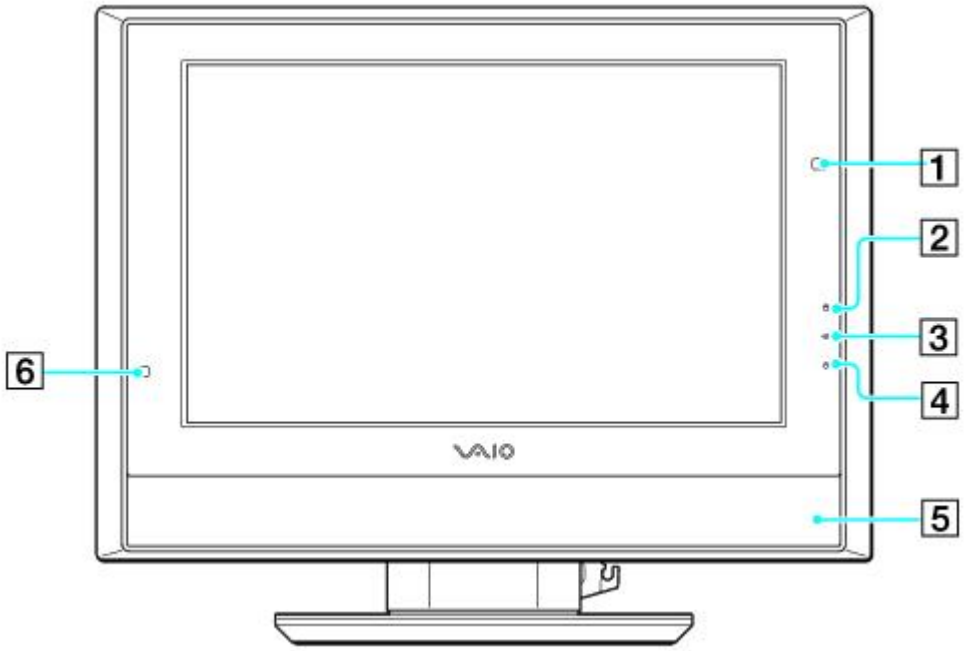
This section is intended to familiarize you with the controls, ports, and jacks on your computer, wireless mouse, and wireless keyboard. Your computer or peripheral equipment may not be equipped with all of the features described, and the location of the controls, ports, and jacks, may vary from the illustrations shown in this section. For more information about your computer and peripheral equipment, see the specifications sheet for your computer on the Sony Online Support Web site at http://www.sony.com/pcsupport.

- About the Front Panel
- About the Back Panel
- About the Interior Panel
- About the Side Panel
- About the Wireless Keyboard
- About the Mouse
- About the Remote Control
- About the i.LINK Port
- About the PCI Card Slot

About the Front Panel

The front panel of your VAIO® computer is equipped with built-in speakers and indicator lights.

Front panel



1 Infrared receiver[1]

Enables communication with the remote control, to turn on TV, change TV channels, and raise or lower volume.

2 Hard disk drive access indicator

Light is amber while reading and writing data.

3 Memory Stick® media access indicator

Light is amber when the Memory Stick media slot is in use.

4 Power indicator

Lights when the power is on or when the computer is in Stand by mode.

5 Stereo speakers (built-in)

The stereo speakers provide sound for software, audio, and video media.

6 Infrared receiver[1]

Enables communication with the remote control, to turn on TV, change TV channels, and raise or lower volume.

[1] Your computer is equipped with a single infrared receiver. The location of this feature may vary, depending on the computer model purchased.

Handling the computer

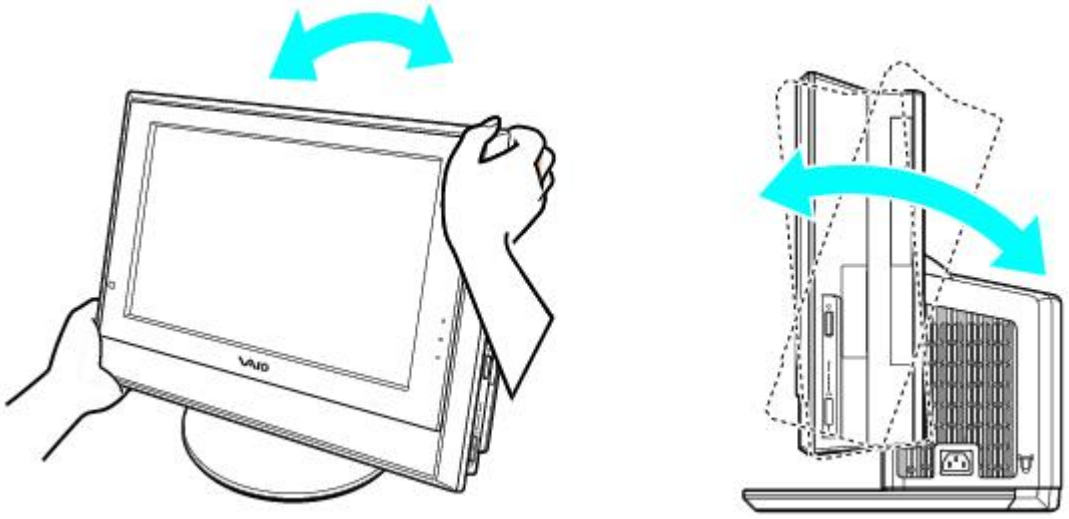
Your VAIO® computer has an attached LCD monitor. Handle the computer carefully when adjusting the monitor's viewing

angle or moving the computer to another location.

Adjusting the monitor viewing angle

1. Place your hands on the sides of the monitor, as shown in the picture.
2. Tilt the monitor to achieve the desired viewing angle.

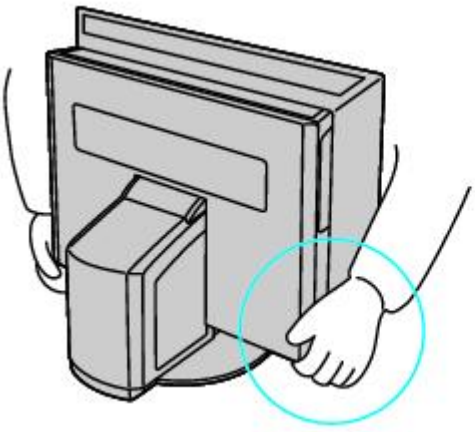
To adjust monitor viewing angle



Lifting the computer

Grasp the computer on both sides, holding the bottom edges firmly.

To lift the computer



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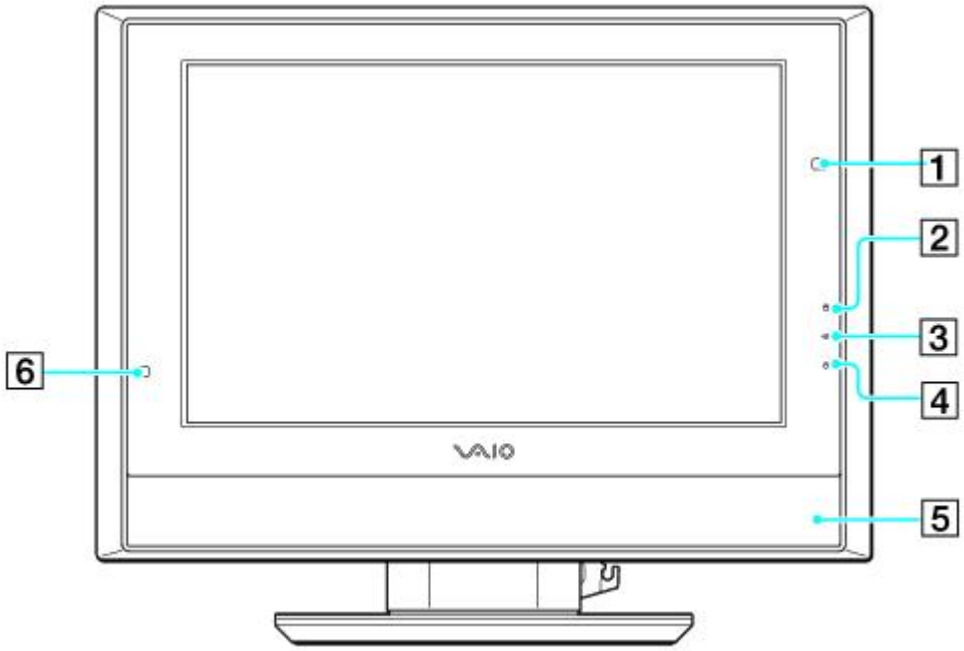

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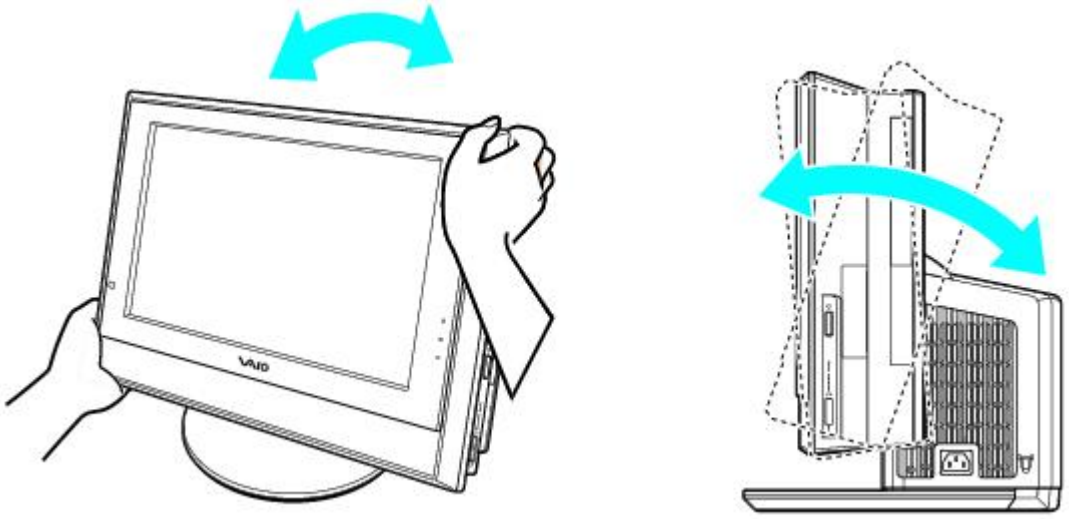

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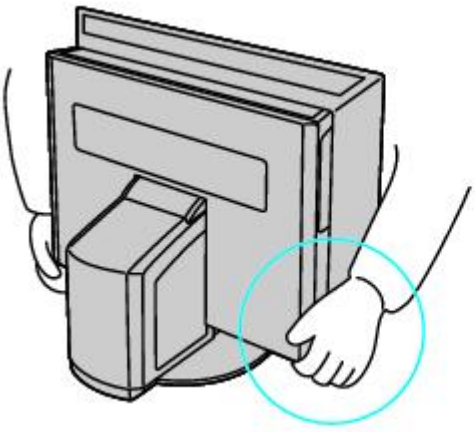
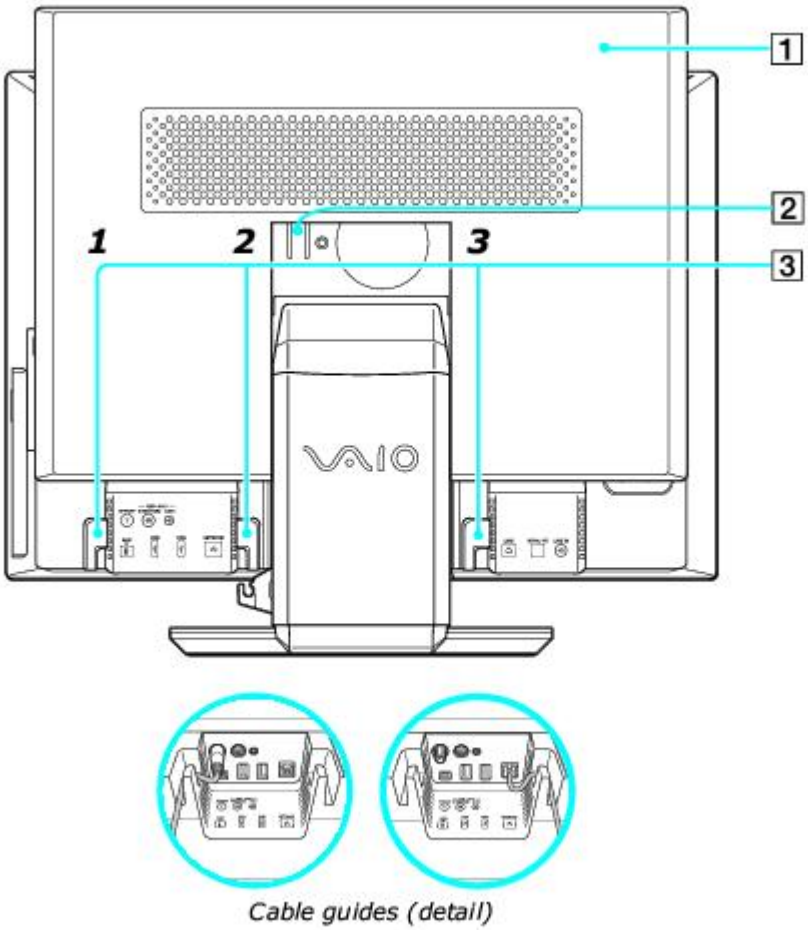


About the Back Panel

The back panel of your VAIO® computer provides access to the memory modules. For information on replacing or increasing your computer's memory, see the section, Installing Memory.

Back panel



Cable guides (detail)

1 Back panel (removable)

Slide the back panel up to access the audio, video, USB, and i.LINK ports located on your computer's interior panel.

2 **Back panel release tab**

Press the release tab to enable lowering of the back panel.

3 Cable guides

Pass the (**1**)TV coaxial, (**2**) network, and (**3**) modem cables through these guides to prevent accidental unplugging.

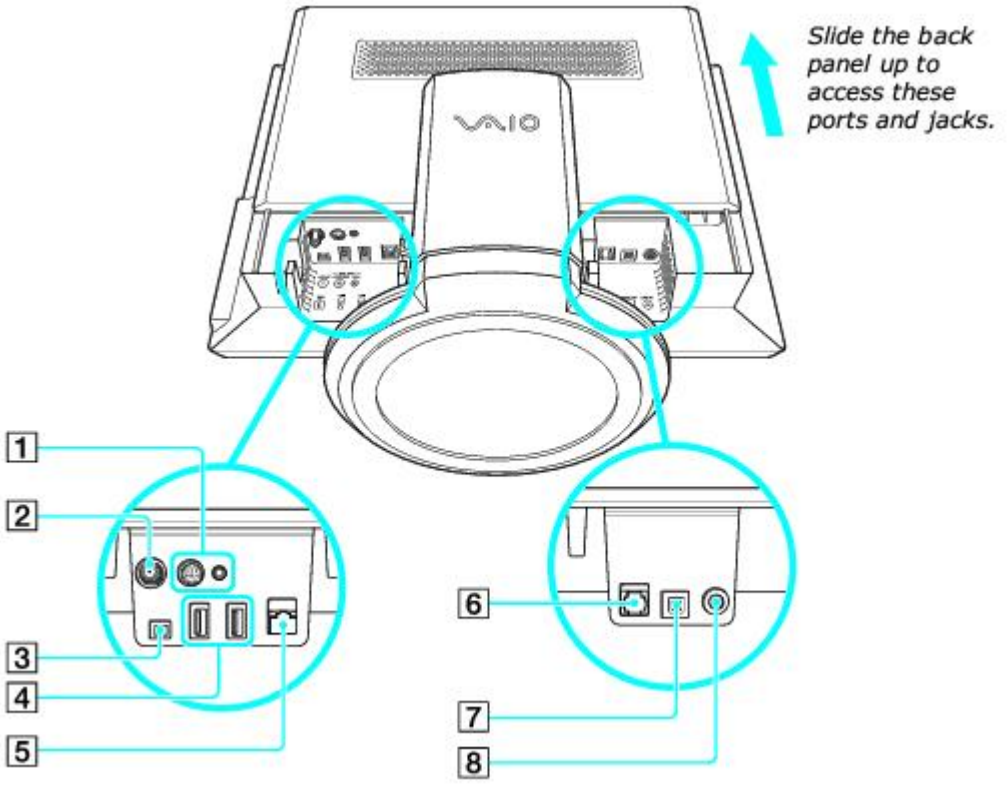
About the Interior Panel

Your VAIO® computer may not be equipped with all of these hardware features and the location of the controls, ports, and jacks may vary from the illustrations shown in this section.

Interior panel

Audio, video, USB, and i.LINK® ports and jacks are located on an interior panel of your computer. The back panel slides up to provide access to these connections.

Bottom panel



1 S-video In jack[1]

Connection for an S-video cable (optional).

Audio In jack

Connection for an audio cable (supplied).

2 VHF/UHF port

Connection for a TV coaxial cable (supplied).

3 i.LINK (4-pin) S400 port (IEEE 1394)

Connection for a compatible digital device.

4 Universal Serial Bus (USB 2.0) ports (2)

Connections for compatible high/full/low-speed USB devices.

5 Ethernet port

Connection for a 10BASE-T/100BASE-TX Ethernet.

(The port marked with (Network) is for LAN connections only.)

6 Modem line jack[2]

Connection for an RJ-11 telephone cable (optional).

7 S/PDIF Optical Out port

Connection for a digital audio or optical device.

8 Line In jack

Connection for an audio device.

[1] A video cable adapter is supplied, enabling the use of a video cable (optional).

[2] An optional "1-to-2" jack adapter device (splitter) is required to connect both a telephone and modem line to your computer.

i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connection. The i.LINK connection may vary, depending on the software programs, operating system, and compatible i.LINK devices. All products with an i.LINK connection may not communicate with each other.

Refer to the documentation that came with your compatible i.LINK device for information on operating conditions and proper connection. Before connecting compatible i.LINK devices to your computer, such as an optical or hard disk drive, confirm their operating system compatibility and required operating conditions.

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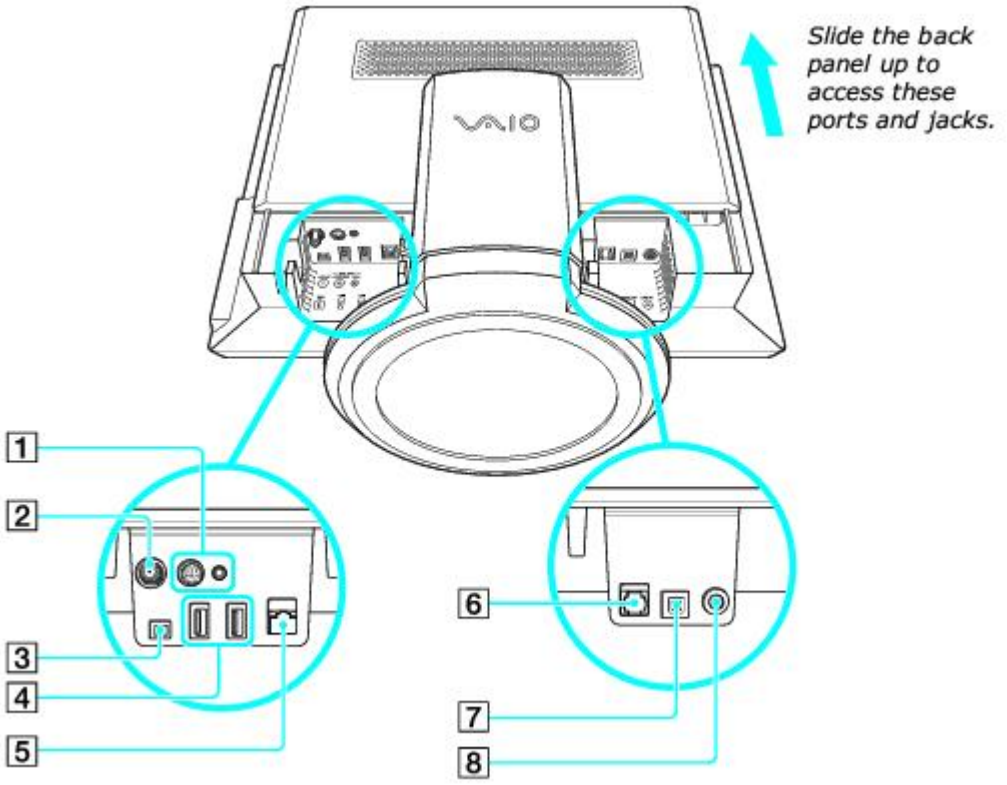

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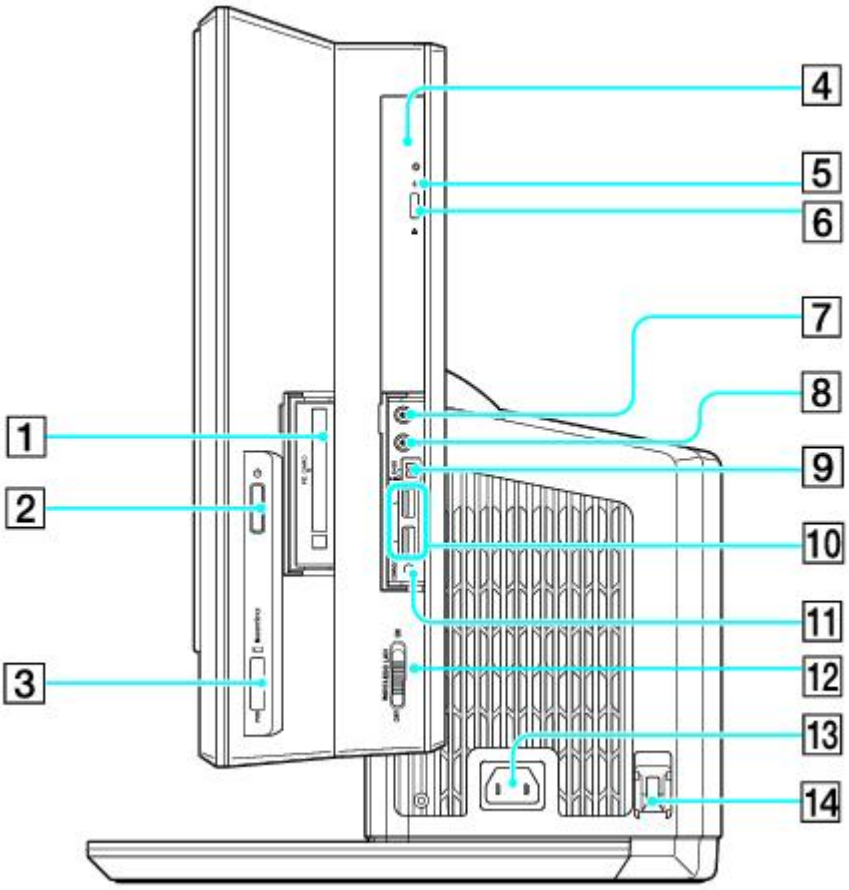
About the Side Panel

The side panels of your computer provide the connections for supplied and optional accessories. The icons on the side panel help to locate and identify the appropriate jack or port.

Right panel



1 PC Card slot

A PC card (PCMCIA card) can be inserted into this slot to increase your computer's functional capabilities.

2 Power button

Press the power button to turn the computer on and off.

3 Memory Stick® media slot

Reads and writes data from and to a Memory Stick media.

4 Optical drive

See the online specifications sheet for optical drive information.

5 Optical disc drive access indicator

Light is amber while reading and writing data.

6 Optical drive eject button

Ejects a disc from the optical drive.

7 Headphones jack

Connection for optional speakers or headphones.

8 Microphone jack

Connection for an optional microphone.

9 i.LINK® 4-pin S400 port (IEEE 1394)

Connection for compatible i.LINK devices.

10 Universal Serial Bus (USB 2.0) ports (2)

Connections for compatible high/full/low-speed USB devices.

11 Connect button

Enables the computer to communicate with the wireless keyboard and wireless optical mouse.

12 Wireless LAN on/off switch[1]

Enables your computer to connect or disconnect to an available wireless network.

13 AC Input port

Connection for the AC power cord (supplied).

14 Power cord hook

Prevents the power cord from becoming unplugged from the system when the computer is rotated.

[1] Not available on all models. For details about your computer's hardware configuration, see the online specifications sheet.

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About the Wireless Keyboard

Your VAIO® computer is supplied with a wireless keyboard that has a standard key arrangement and additional keys that perform specific functions. The keyboard model or features may vary, based on the computer model purchased.

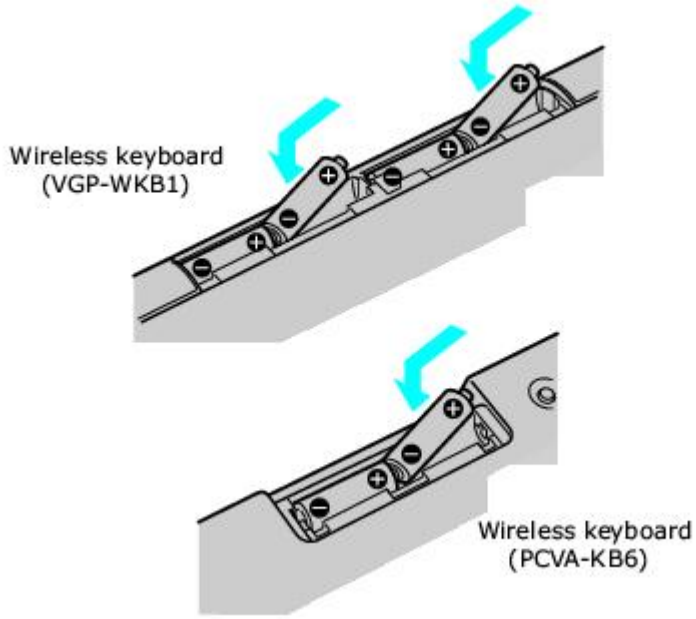
After setting up your wireless keyboard and inserting the batteries, establish the communication between the keyboard and the computer. For instructions, see the section, Connecting the Wireless Keyboard.

To set up a wireless keyboard

Insert AA batteries[1] (supplied) into the wireless keyboard as shown. You can check your keyboard's battery power level by clicking (wireless keyboard icon[2]), located in the Windows® taskbar notification area. A warning message may also appear on the screen when the keyboard's battery power is low.

Do not mix old (used) and new batteries when replacing batteries in the wireless keyboard. Always use the same type and manufacture of battery — do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the keyboard.

Inserting batteries into the wireless keyboard



If your wireless keyboard does not operate properly, the batteries may need to be replaced. When your wireless keyboard is not being used for extended periods of time, remove the batteries to avoid possible damage from battery leakage.

[1] Your wireless keyboard may require two or more AA batteries, depending on the keyboard model supplied with your computer.

[2] The wireless keyboard icon is only available with the computer model VGC-V517G.

About the Wireless Keyboard

Your VAIO® computer is supplied with a wireless keyboard that has a standard key arrangement and additional keys that perform specific functions. The keyboard model or features may vary, based on the computer model purchased.

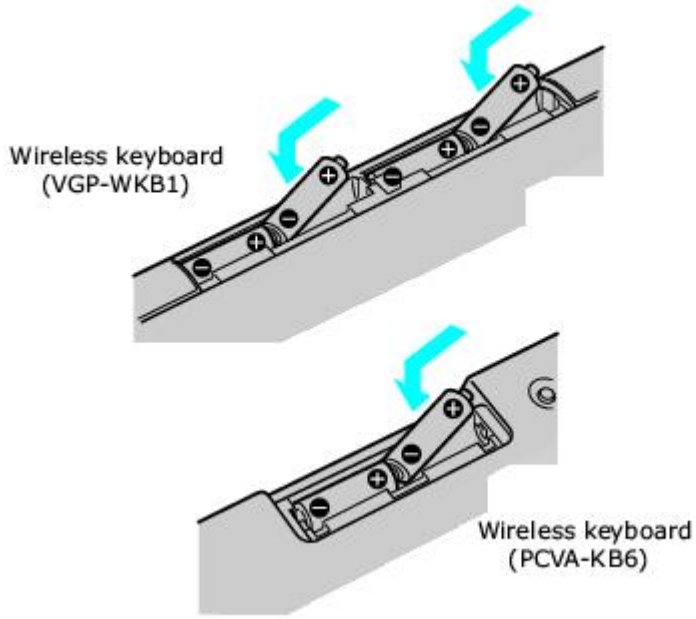
After setting up your wireless keyboard and inserting the batteries, establish the communication between the keyboard and the computer. For instructions, see the section, Connecting the Wireless Keyboard.

To set up a wireless keyboard

Insert AA batteries[1] (supplied) into the wireless keyboard as shown. You can check your keyboard's battery power level by clicking (wireless keyboard icon[2]), located in the Windows® taskbar notification area. A warning message may also appear on the screen when the keyboard's battery power is low.

Do not mix old (used) and new batteries when replacing batteries in the wireless keyboard. Always use the same type and manufacture of battery — do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the keyboard.

Inserting batteries into the wireless keyboard



If your wireless keyboard does not operate properly, the batteries may need to be replaced. When your wireless keyboard is not being used for extended periods of time, remove the batteries to avoid possible damage from battery leakage.

[1] Your wireless keyboard may require two or more AA batteries, depending on the keyboard model supplied with your computer.

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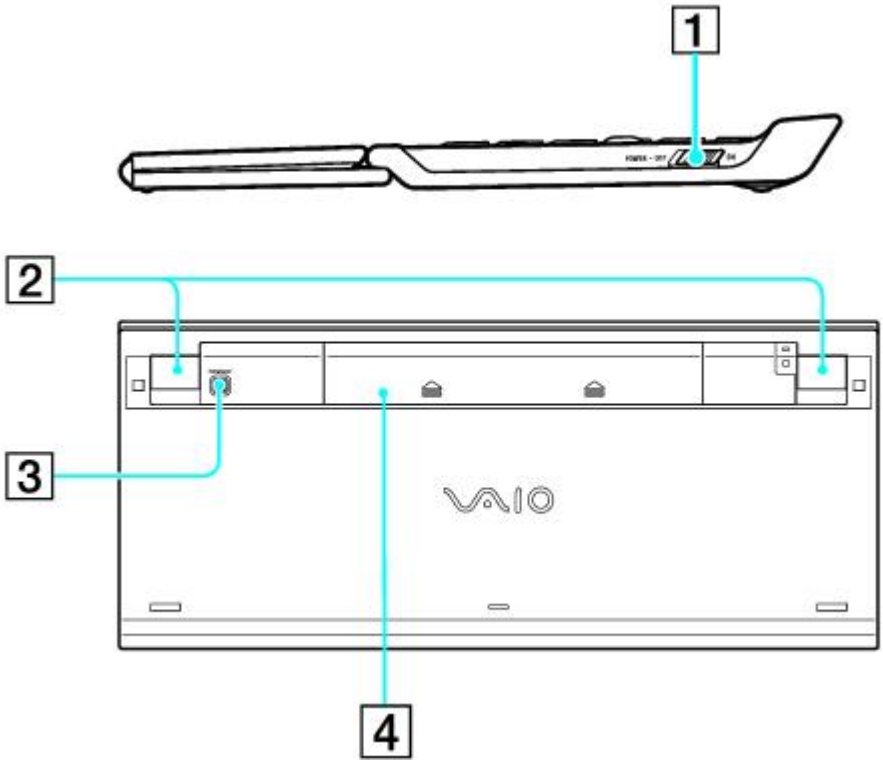
About the wireless keyboard (VGP-WKB1)

Wireless keyboard (VGP-WKB1)



1 Power switch

Slide the switch to turn the keyboard power on or off.

2 Keyboard feet

Extend the feet to adjust the keyboard height.

3 CONNECT button

Press to enable the wireless keyboard to communicate with the computer.

4 Battery compartment

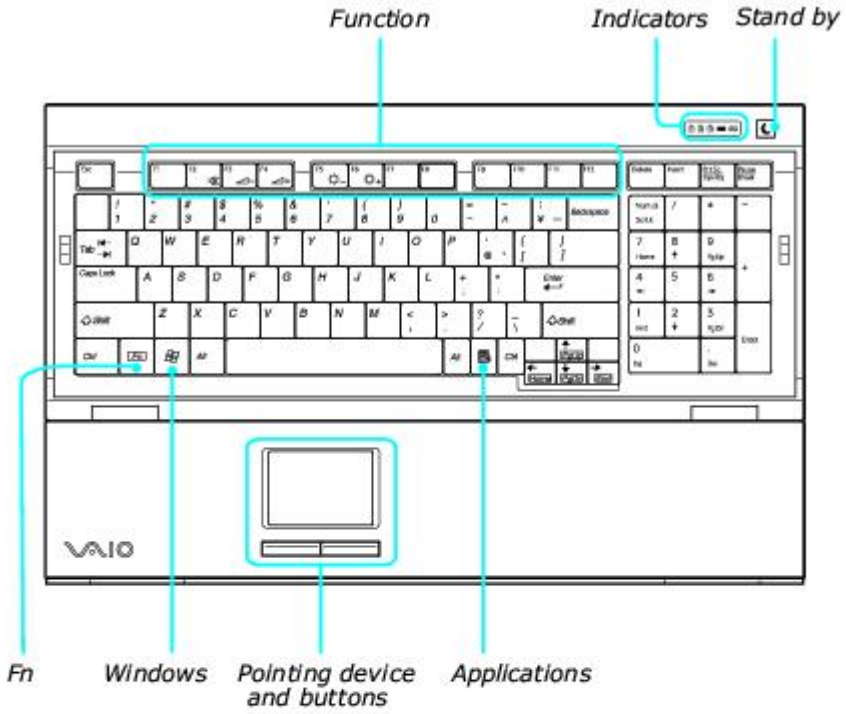
Compartment for the supplied AA batteries.

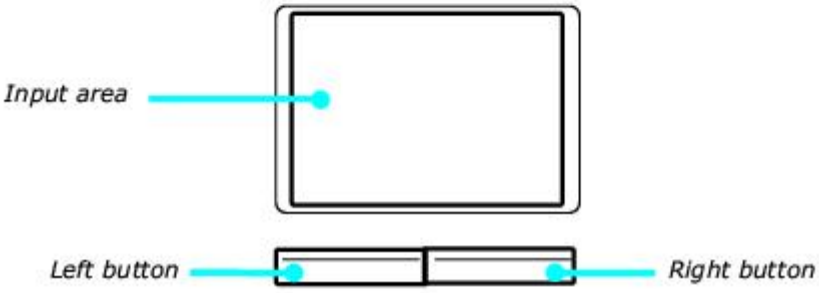
Using a wireless keyboard (VGP-WKB1)

The wrist rest can be folded over the keyboard keys, when the keyboard is not in use.

To handle a wireless keyboard

Wireless keyboard (VGP-WKB1)





ITEM DESCRIPTION

Pointing device and buttons Use the input area to move the pointer on the monitor. The left and right buttons provide the same functions as wireless mouse buttons.

Indicators Indicators light when the Caps Lock, Num Lock, or Scroll Lock functions are active. The indicators also light to show battery power levels.

Fn Use with function keys to make certain adjustments to your computer, such as volume control, muting, and screen brightness. You can also use the Fn key with the function keys to perform certain task. These tasks vary between software programs.

Stand by

Press to place the computer into Stand by mode. Press again to resume normal operation[1].

Function The 12 function keys are used to perform certain tasks. The task associated with each function key varies between software programs.

Numeric keypad Use the numeric keypad to type numbers or to perform basic math calculations. Press the Num Lock key to enable the numeric keypad function. Press the Num Lock key again to disable the numeric keypad.

Direction arrows The Up, Down, Left, and Right arrow keys move the pointer on the computer screen.

Applications

Press to display a shortcut menu in certain software programs. Pressing this key is equivalent to clicking the right mouse button.

Windows

The Microsoft® Windows® key, displays the Start menu. Pressing this key is equivalent to clicking Start on the taskbar.

[1] Use the Stand by key to resume from Stand by mode. Pressing other keys or using the mouse may not enable your computer to resume normal operation.

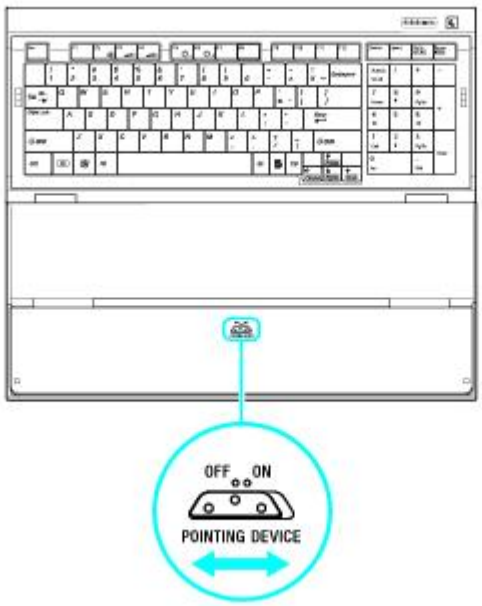
Using the pointing device

The keyboard model, VGC-WKB1, is equipped with a built-in pointing device. Your finger movements on the input area moves the pointer on the computer's monitor. The left and right buttons provide the same functions as the left and right buttons on a mouse.

To turn on the pointing device

1. Open the wireless keyboard's wrist rest panel completely.
2. Slide the on/off button to the **On** position.
3. Use the input area and buttons to direct the pointer on the computer screen and perform your computing tasks.

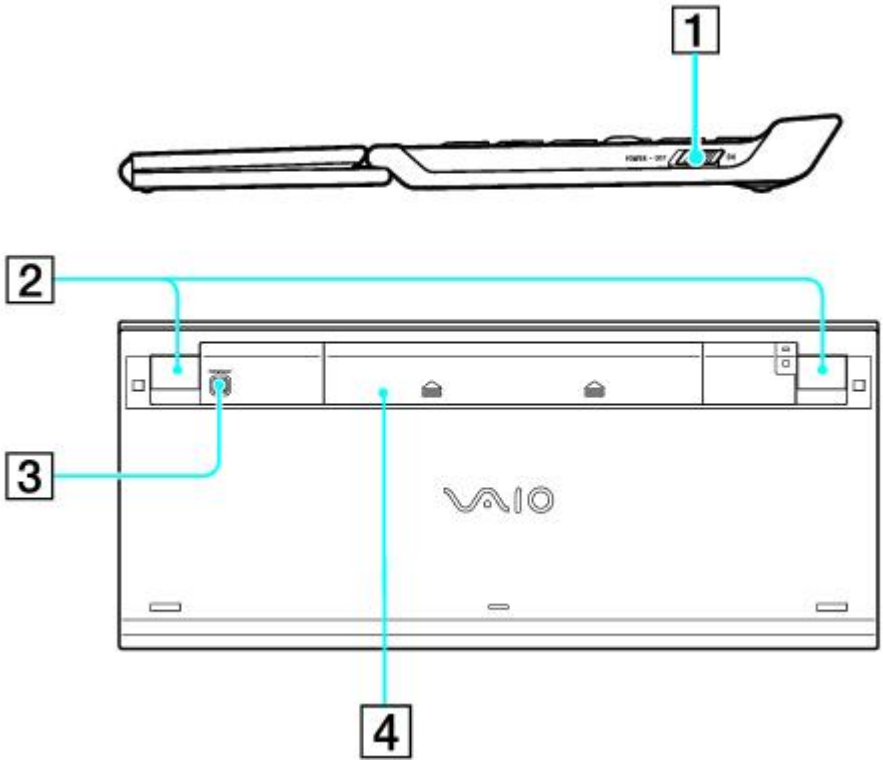
Turning on the pointer device (VGC-WKB1)



Action	Description
Sliding one finger	Equivalent to using a mouse to move the pointer on the monitor screen.
Tapping once	Equivalent to a single-click of the left button on a mouse.
Tapping twice	Equivalent to a double-click of the left button on a mouse.
Sliding finger while pressing the left button	Equivalent to using a mouse to drag an item on the monitor screen.

About the wireless keyboard (VGP-WKB1)

Wireless keyboard (VGP-WKB1)



1 Power switch

Slide the switch to turn the keyboard power on or off.

2 Keyboard feet

Extend the feet to adjust the keyboard height.

3 CONNECT button

Press to enable the wireless keyboard to communicate with the computer.

4 Battery compartment

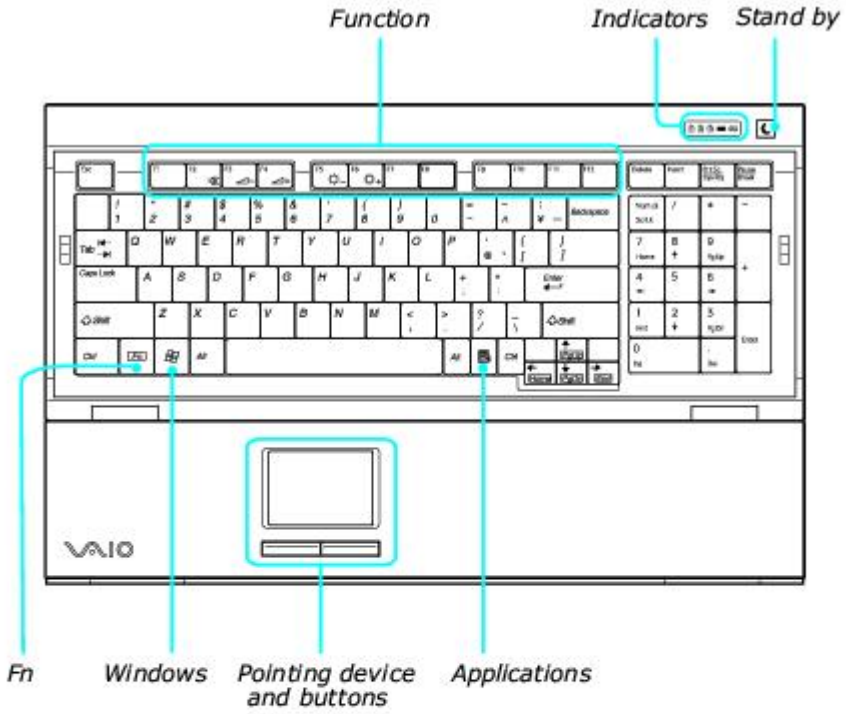
Compartment for the supplied AA batteries.

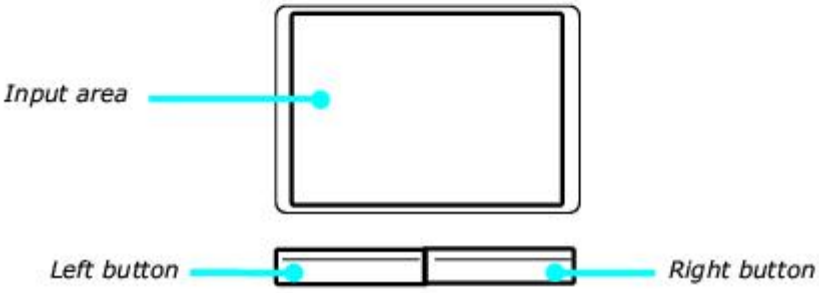
Using a wireless keyboard (VGP-WKB1)

The wrist rest can be folded over the keyboard keys, when the keyboard is not in use.

To handle a wireless keyboard

Wireless keyboard (VGP-WKB1)





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Fn Use with function keys to make certain adjustments to your computer, such as volume control, muting, and screen brightness. You can also use the Fn key with the function keys to perform certain task. These tasks vary between software programs.

Stand by

Press to place the computer into Stand by mode. Press again to resume normal operation[1].

Function The 12 function keys are used to perform certain tasks. The task associated with each function key varies between software programs.

Numeric keypad Use the numeric keypad to type numbers or to perform basic math calculations. Press the Num Lock key to enable the numeric keypad function. Press the Num Lock key again to disable the numeric keypad.

Direction arrows The Up, Down, Left, and Right arrow keys move the pointer on the computer screen.

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Press to display a shortcut menu in certain software programs. Pressing this key is equivalent to clicking the right mouse button.

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The Microsoft® Windows® key, displays the Start menu. Pressing this key is equivalent to clicking Start on the taskbar.

[1] Use the Stand by key to resume from Stand by mode. Pressing other keys or using the mouse may not enable your computer to resume normal operation.

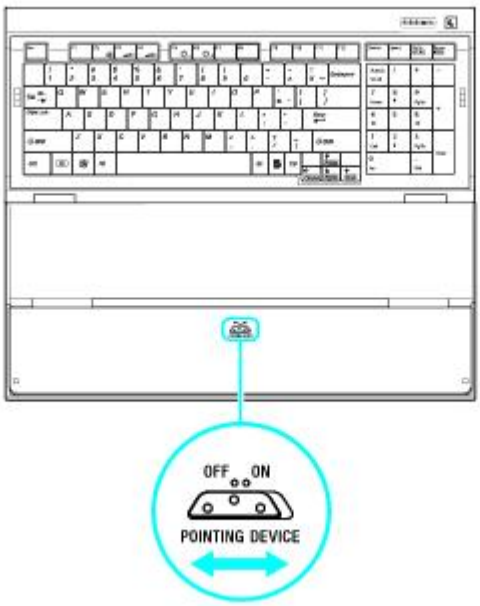
Using the pointing device

The keyboard model, VGC-WKB1, is equipped with a built-in pointing device. Your finger movements on the input area moves the pointer on the computer's monitor. The left and right buttons provide the same functions as the left and right buttons on a mouse.

To turn on the pointing device

1. Open the wireless keyboard's wrist rest panel completely.
2. Slide the on/off button to the **On** position.
3. Use the input area and buttons to direct the pointer on the computer screen and perform your computing tasks.

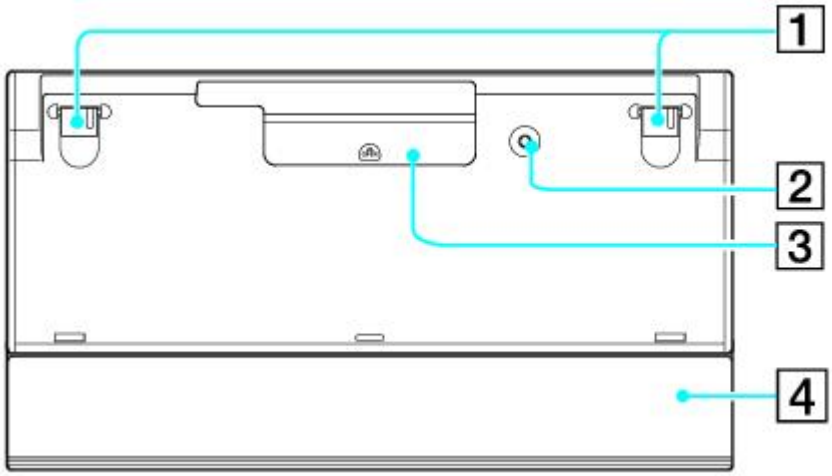
Turning on the pointer device (VGC-WKB1)



Action	Description
Sliding one finger	Equivalent to using a mouse to move the pointer on the monitor screen.
Tapping once	Equivalent to a single-click of the left button on a mouse.
Tapping twice	Equivalent to a double-click of the left button on a mouse.
Sliding finger while pressing the left button	Equivalent to using a mouse to drag an item on the monitor screen.

About the wireless keyboard (PCVA-KB6)

Wireless keyboard (PCVA-KB6)



1 Keyboard feet

Extend the feet to adjust the keyboard height.

2 CONNECT button

Press to enable the wireless keyboard to communicate with the computer.

3 Battery compartment

Compartment for the supplied AA batteries.

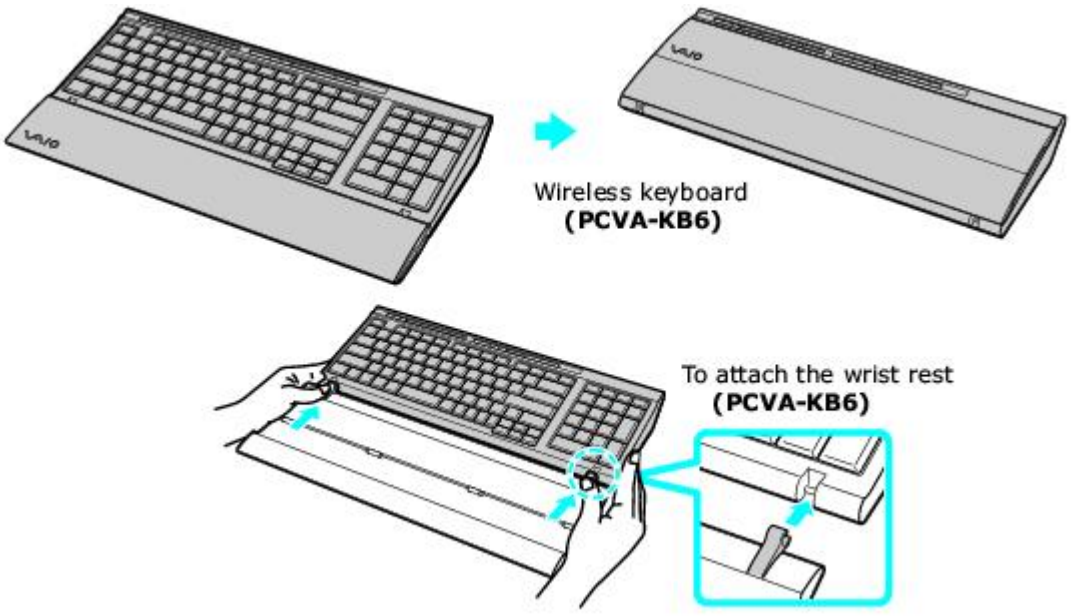
4 Wrist rest

Detachable wrist rest that doubles as a keyboard cover.

Using a wireless keyboard (PCVA-KB6)

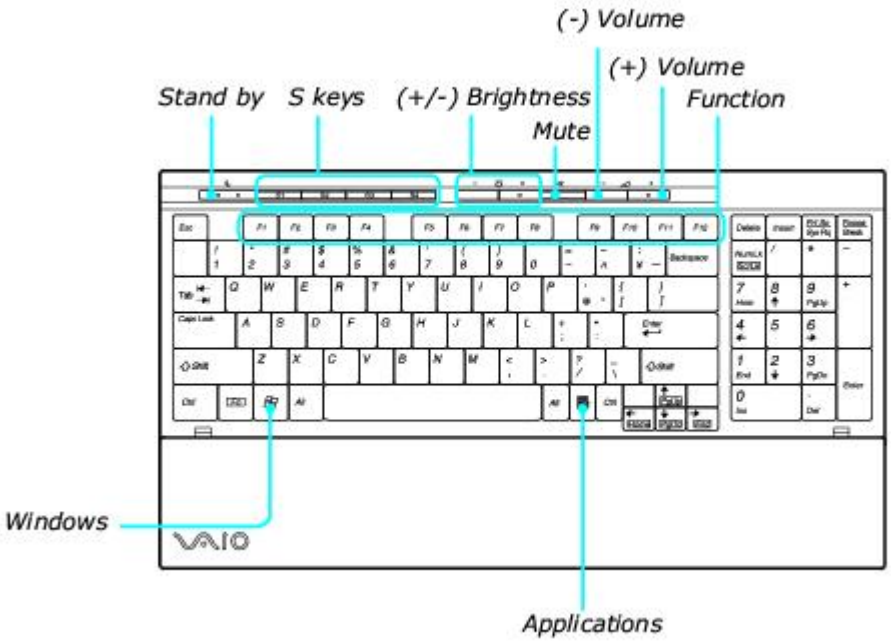
The detachable wrist rest can be folded over the keyboard keys, when the keyboard is not in use.

To handle a wireless keyboard



Identifying keys and functions

Wireless keyboard (PCVA-KB6)



ITEM DESCRIPTION

Stand by Press to place the computer into Stand by mode. Press again to resume normal operation[1].

S keys Press to activate specific applications.

Brightness Press increase (+) or decrease (-) the brightness of the LCD screen.

Mute Press to turn off speaker sound. Press again to restore sound.

Volume controls

Press to increase (+) or decrease (-) the speakers' volume.

Function The 12 function keys are used to perform certain tasks. The task associated with each function key varies between software programs.

Numeric keypad Use the numeric keypad to type numbers or to perform basic math calculations. Press the Num Lock key to enable the numeric keypad function. Press the Num Lock key again to disable the numeric keypad.

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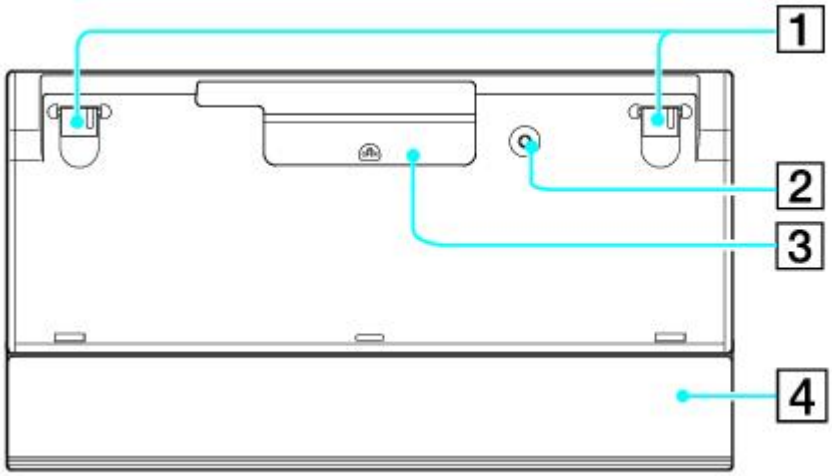
About the wireless keyboard (PCVA-KB6)

Wireless keyboard (PCVA-KB6)



1 Keyboard feet

Extend the feet to adjust the keyboard height.

2 CONNECT button

Press to enable the wireless keyboard to communicate with the computer.

3 Battery compartment

Compartment for the supplied AA batteries.

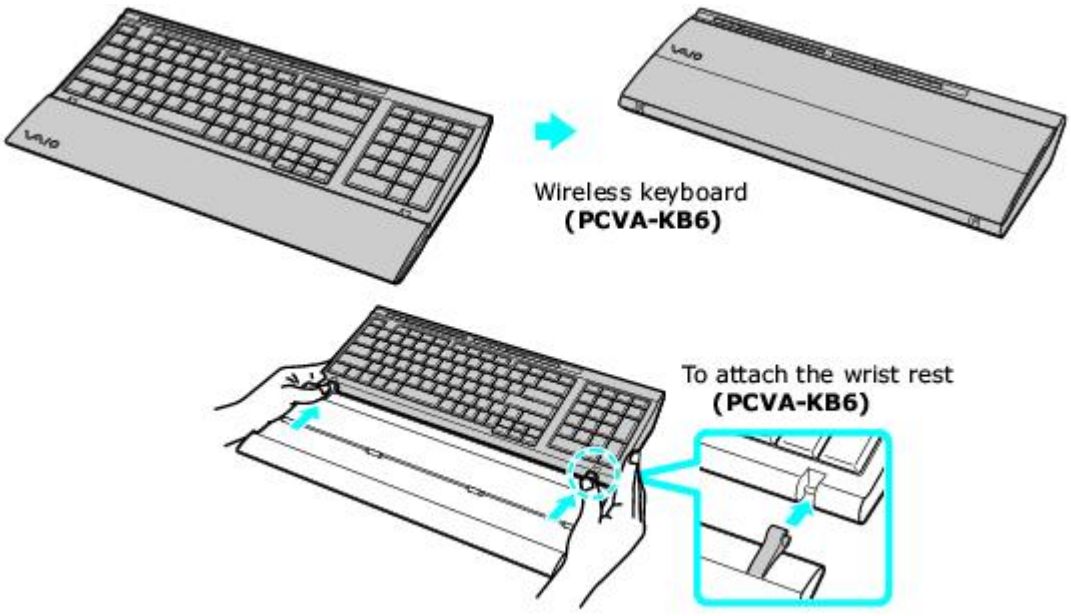
4 Wrist rest

Detachable wrist rest that doubles as a keyboard cover.

Using a wireless keyboard (PCVA-KB6)

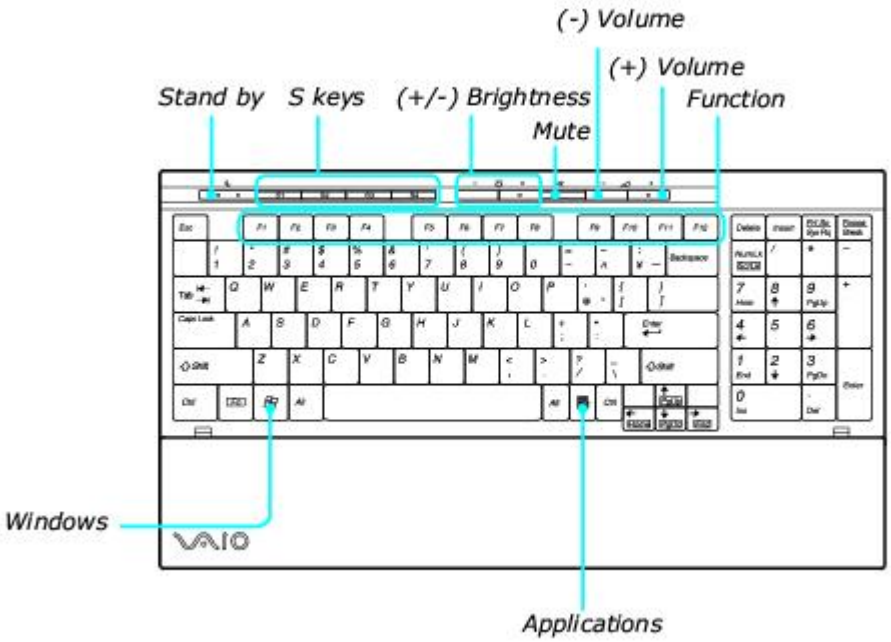
The detachable wrist rest can be folded over the keyboard keys, when the keyboard is not in use.

To handle a wireless keyboard



Identifying keys and functions

Wireless keyboard (PCVA-KB6)



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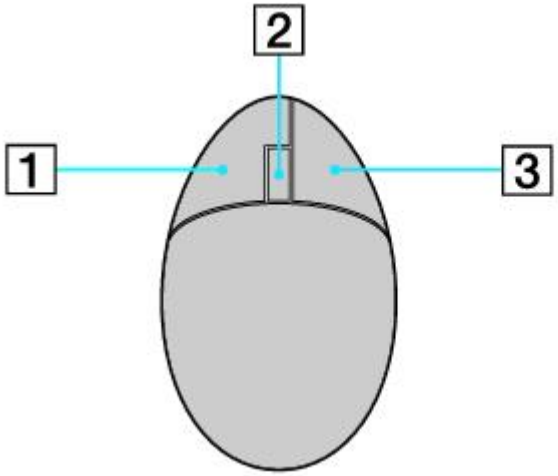
About the Mouse

Your VAIO® computer is supplied with a wireless optical mouse. Before attempting to use the wireless optical mouse with your computer, see the section, Connecting the Wireless Mouse.

Wireless mouse (top)



1 Left mouse button

Press to perform specific mouse functions.

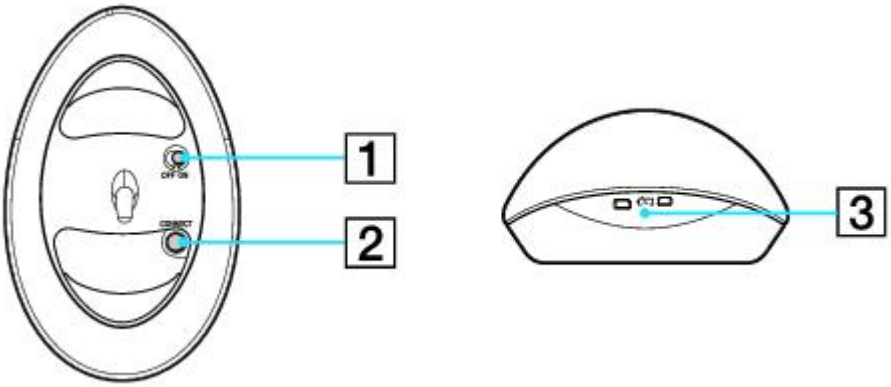
2 Wheel

Rotate the wheel to scroll up or down on the LCD screen.

3 Right mouse button

Press to perform specific mouse functions.

Wireless mouse (Side and bottom)



1 Power switch

Slide power switch to turn the mouse on or off.

2 CONNECT button

Press to enable communication between your VAIO® computer and the wireless mouse.

3 Indicators[1]

Lights to show battery power levels.

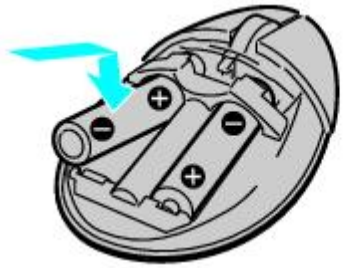
[1] The battery power level indicators are only available on the mouse model, VGP-WMS1. See your specifications sheet for details on supplied accessories.

To set up the wireless mouse

Insert the AA batteries (supplied) into the wireless mouse as shown. You can check your mouse's battery power level by clicking (wireless mouse icon[1]), located in the Windows® taskbar notification area. A warning message also appears on the screen when the mouse's battery power is low.

Do not mix old (used) and new batteries when replacing batteries in the wireless mouse. Always use the same type and manufacture of battery — do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the mouse.

Inserting batteries into the wireless mouse



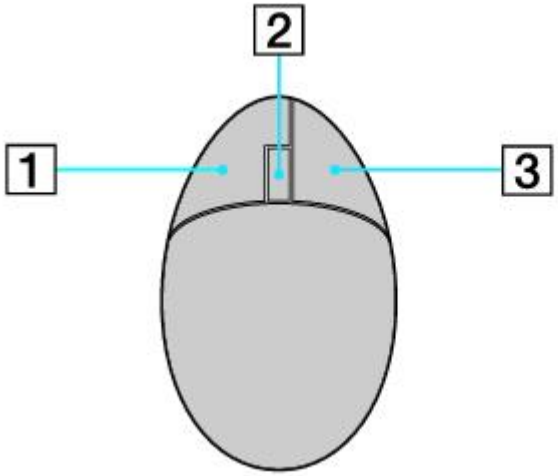
If your wireless mouse does not operate properly, the batteries may need to be replaced. When your wireless mouse is not being used for extended periods of time, remove the batteries to avoid possible damage from battery leakage.

[1] The wireless mouse icon is only available with the computer model VGC-V517G.

About the Mouse

Your VAIO® computer is supplied with a wireless optical mouse. Before attempting to use the wireless optical mouse with your computer, see the section, Connecting the Wireless Mouse.

Wireless mouse (top)



1 Left mouse button

Press to perform specific mouse functions.

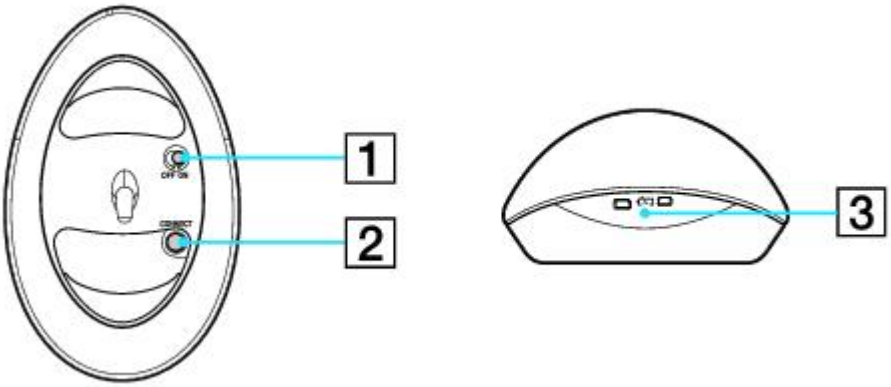
2 Wheel

Rotate the wheel to scroll up or down on the LCD screen.

3 Right mouse button

Press to perform specific mouse functions.

Wireless mouse (Side and bottom)



1 Power switch

Slide power switch to turn the mouse on or off.

2 CONNECT button

Press to enable communication between your VAIO® computer and the wireless mouse.

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Lights to show battery power levels.

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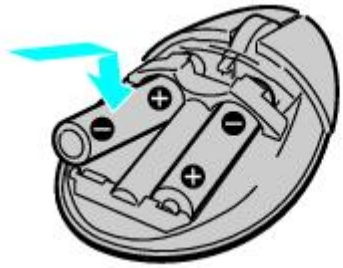
Inserting batteries into the wireless mouse



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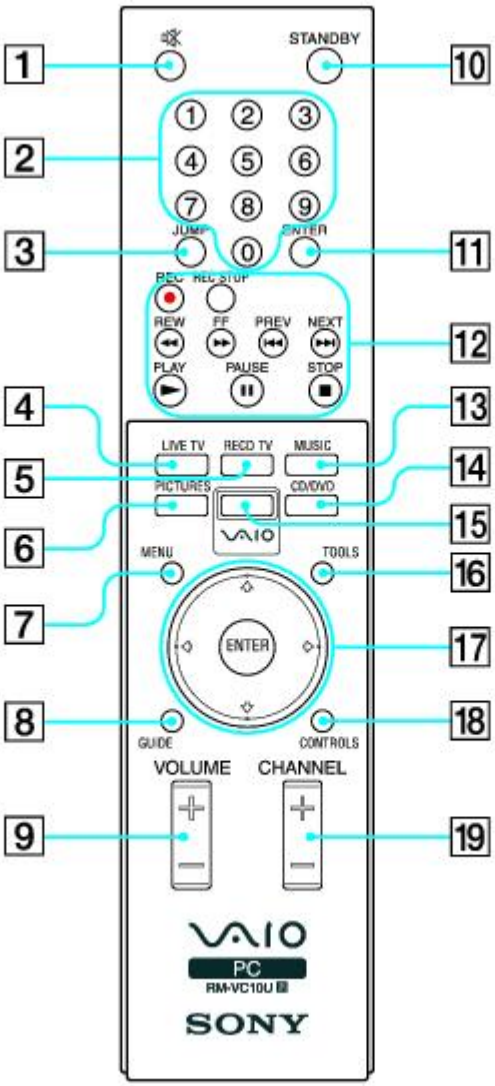
[1] The wireless mouse icon is only available with the computer model VGC-V517G.

About the Remote Control

The supplied remote control can start and stop video recording and playback, select channels, and set viewing preferences. This section describes the basic functions of your remote control

Remote control



1 MUTE button

Press to turn off the sound. Press again to restore the sound.

2 Channel number buttons (0-9)

Press to select specific channels.

(Press the **ENTER** button to activate channel selection.)

3 JUMP button

Press to go to the previous channel. Press again to return to the current channel.

4 LIVE TV button

Press to watch current TV programming.

5 RECD TV button

Press to start playback of TV programs recorded with VAIO Zone software.

6 PICTURES button

Press to watch a photo slide show with VAIO Zone software.

7 MENU button

Press to view a shortcut menu of available VAIO Zone software options. Press again to hide this menu.

8 GUIDE button

Press to view the TV program guide. (Note: The TV program guide is only available after setting up the TV channels in the VAIO Zone software.)

9 VOLUME button

Press to raise or lower the volume.

10 STANDBY button

Press to place the system into Stand by mode.

(Note: You cannot place the computer into Stand by mode when certain VAIO Zone functions are running.)

11 ENTER button

Press to activate channel selection. See **Channel number** buttons.

12 REC button

Press to begin recording.

(Note: The REC function is available for VAIO Zone software only.)

REC STOP button

Press to stop recording.

(Note: The REC STOP function is available for VAIO Zone software only.)

REW and FF buttons

Press to rewind or fast-forward.

PREV and NEXT buttons

Press to move back to the previous screen or forward to the next screen.

PLAY button

Press to begin playback.

PAUSE button

Press to pause playback.

STOP button

Press to stop playback.

13 MUSIC button

Press to listen to music using VAIO Zone software.

14 CD/DVD button

Press to play DVDs or audio CDs using VAIO Zone software.

15 VAIO button

Press to start VAIO Zone software. You can also close VAIO Zone software by pressing this button.

16 TOOLS button

Press to display an option menu while using a VAIO Zone software feature, such as playing music, or watching a photo slide show.

17 Direction arrows and ENTER button

Press a direction arrow to locate and select options in VAIO Zone software. Press **ENTER** to activate the selection.

18 CONTROLS button

Press to display the playback controls in VAIO Zone software. Press again to hide the playback controls.

19 CHANNEL button

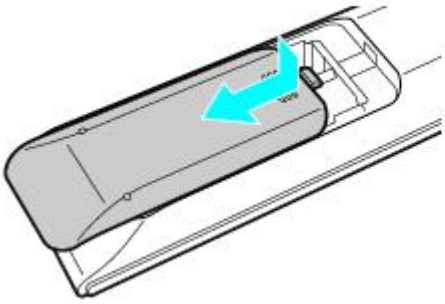
Press to change channels automatically (no number input required).

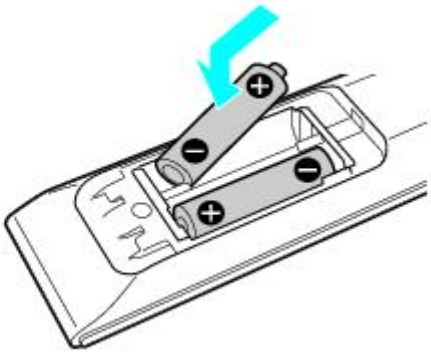
For more details about the function buttons on your remote control, see the VAIO Zone software program Help.

To set up the remote control

Insert two AA batteries (supplied) into the remote control, as shown.

Inserting batteries into the remote control





⚠ **Do not mix old (used) and new batteries when replacing batteries in the remote control. Always use the same type and manufacture of battery — do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the remote control.**

✍ If your remote control does not operate properly, the batteries may need to be replaced. When your remote control is not being used for extended periods of time, remove the batteries to avoid possible damage from battery leakage.

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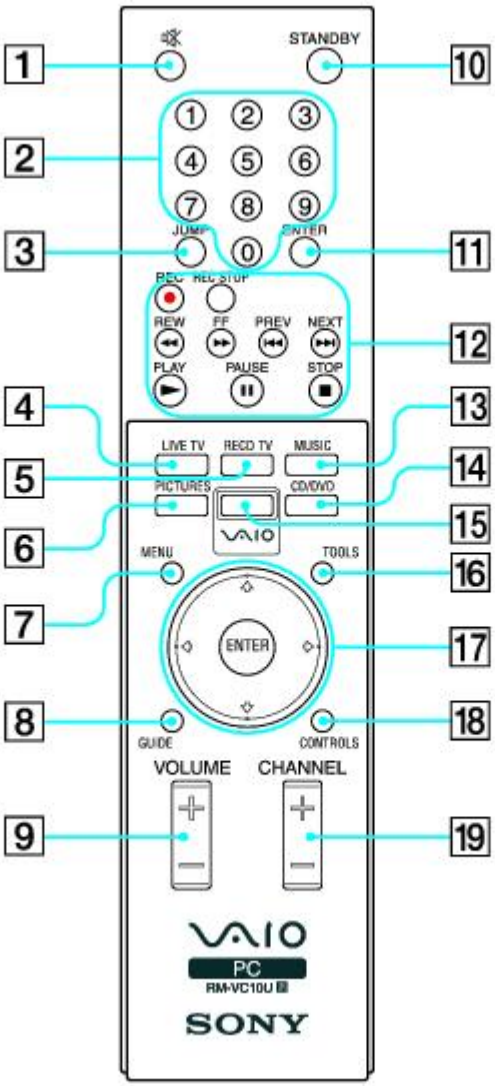
Remote control



1 MUTE button

Press to turn off the sound. Press again to restore the sound.

2 Channel number buttons (0-9)

Press to select specific channels.

(Press the **ENTER** button to activate channel selection.)

3 JUMP button

Press to go to the previous channel. Press again to return to the current channel.

4 LIVE TV button

Press to watch current TV programming.

5 RECD TV button

Press to start playback of TV programs recorded with VAIO Zone software.

6 PICTURES button

Press to watch a photo slide show with VAIO Zone software.

7 MENU button

Press to view a shortcut menu of available VAIO Zone software options. Press again to hide this menu.

8 GUIDE button

Press to view the TV program guide. (Note: The TV program guide is only available after setting up the TV channels in the VAIO Zone software.)

9 VOLUME button

Press to raise or lower the volume.

10 STANDBY button

Press to place the system into Stand by mode.

(Note: You cannot place the computer into Stand by mode when certain VAIO Zone functions are running.)

11 ENTER button

Press to activate channel selection. See **Channel number** buttons.

12 REC button

Press to begin recording.

(Note: The REC function is available for VAIO Zone software only.)

REC STOP button

Press to stop recording.

(Note: The REC STOP function is available for VAIO Zone software only.)

REW and FF buttons

Press to rewind or fast-forward.

PREV and NEXT buttons

Press to move back to the previous screen or forward to the next screen.

PLAY button

Press to begin playback.

PAUSE button

Press to pause playback.

STOP button

Press to stop playback.

13 MUSIC button

Press to listen to music using VAIO Zone software.

14 CD/DVD button

Press to play DVDs or audio CDs using VAIO Zone software.

15 VAIO button

Press to start VAIO Zone software. You can also close VAIO Zone software by pressing this button.

16 TOOLS button

Press to display an option menu while using a VAIO Zone software feature, such as playing music, or watching a photo slide show.

17 Direction arrows and ENTER button

Press a direction arrow to locate and select options in VAIO Zone software. Press **ENTER** to activate the selection.

18 CONTROLS button

Press to display the playback controls in VAIO Zone software. Press again to hide the playback controls.

19 CHANNEL button

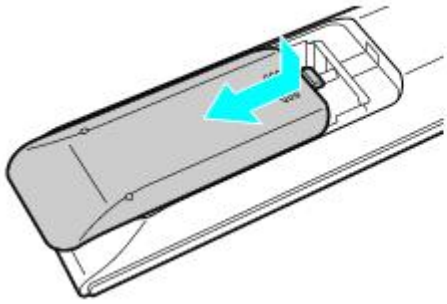
Press to change channels automatically (no number input required).

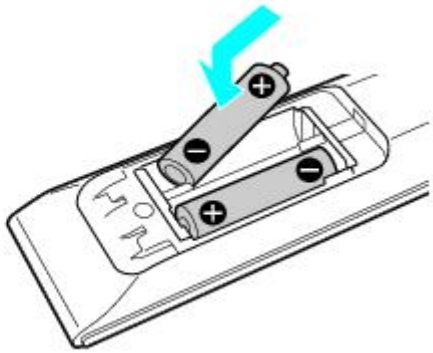
For more details about the function buttons on your remote control, see the VAIO Zone software program Help.

To set up the remote control

Insert two AA batteries (supplied) into the remote control, as shown.

Inserting batteries into the remote control





⚠ **Do not mix old (used) and new batteries when replacing batteries in the remote control. Always use the same type and manufacture of battery — do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the remote control.**

✍ If your remote control does not operate properly, the batteries may need to be replaced. When your remote control is not being used for extended periods of time, remove the batteries to avoid possible damage from battery leakage.

About the i.LINK Port

Your VAIO® computer is equipped with a 4-pin i.LINK® port.

A 4-pin i.LINK port cannot supply power to a connected i.LINK device. A 6-pin i.LINK port is required to supply power (10V to 12V) to a connected i.LINK device, if the device is equipped with a 6-pin connector. See the instructions supplied with your i.LINK device for more information on installation and use.

Connecting an i.LINK (IEEE 1394) device

1. Use the symbol to locate the i.LINK port on your compatible i.LINK device. Plug the device's i.LINK cable connector into this port.
2. Plug the other end of the cable into the i.LINK port on your computer.

About the i.LINK Port

Your VAIO® computer is equipped with a 4-pin i.LINK® port.

A 4-pin i.LINK port cannot supply power to a connected i.LINK device. A 6-pin i.LINK port is required to supply power (10V to 12V) to a connected i.LINK device, if the device is equipped with a 6-pin connector. See the instructions supplied with your i.LINK device for more information on installation and use.

Connecting an i.LINK (IEEE 1394) device

1. Use the symbol to locate the i.LINK port on your compatible i.LINK device. Plug the device's i.LINK cable connector into this port.
2. Plug the other end of the cable into the i.LINK port on your computer.

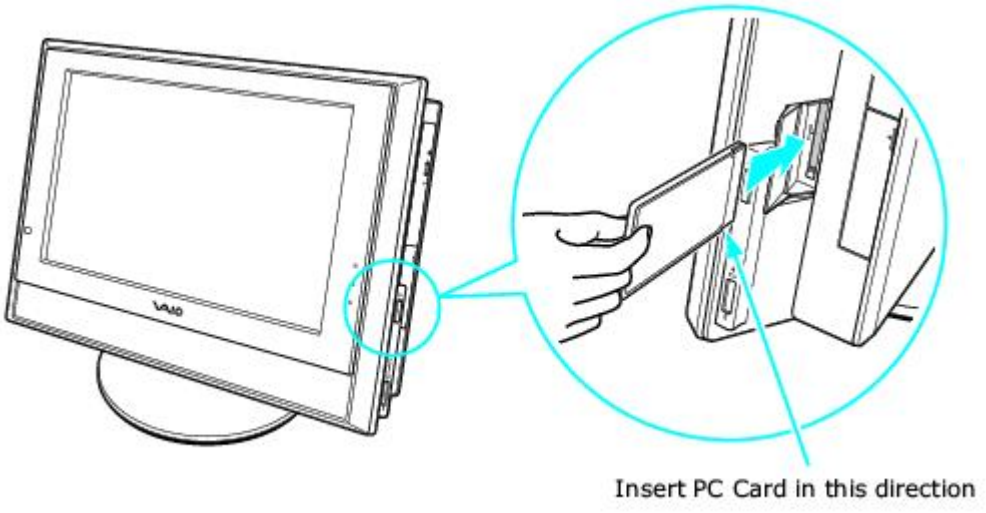
About the PCI Card Slot

Your computer has a card bus PC Card slot that supports Type I or Type II PC (PCMCIA) Cards. You do not need to shut down your computer when inserting or removing a PC Card. For details about your PC Card, see the information supplied with the Card.

Inserting a PC Card

1. Use your fingertip to open the panel covering the PC Card slot, located on the right side panel of your computer.
2. With the label facing towards the front of the computer, insert the PC Card into the PC Card slot.

Inserting a PC Card



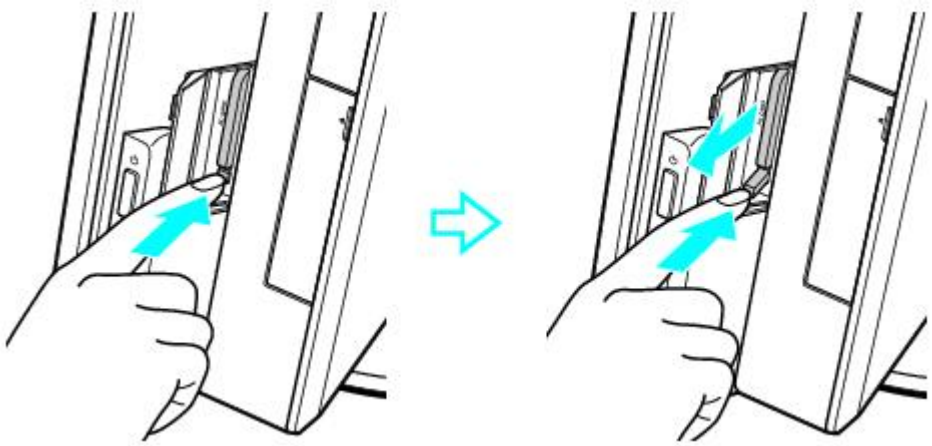
3. Push the PC Card gently into the slot. The card is automatically detected.

If the PC Card does not insert easily, remove it from the PC Card slot and verify that it is not upside-down or backwards. Carefully reinsert the PC Card, without forcing it into the slot.

Removing a PC Card

1. Close all software programs that may access the PC Card, to avoid data loss.
2. Double-click the **Safely Remove Hardware** icon in the Windows® taskbar.
3. Click to select the name of the card that you want to eject and click **Stop**. The **Stop a Hardware Device** window appears. Click **OK**.
4. When the message, **Safe to Remove Hardware** appears, press the Eject button once to extend the button out from the computer
5. Press the Eject button again, to eject the PC Card from the computer.

Removing a PC Card



6. When the PC Card ejects from the PC Card slot, remove the card by holding the edges and pulling it out

carefully.

7. Close the PC Card panel on the computer.

✍ If you eject the PC Card incorrectly, your computer may not work properly.

About the PCI Card Slot

Your computer has a card bus PC Card slot that supports Type I or Type II PC (PCMCIA) Cards. You do not need to shut down your computer when inserting or removing a PC Card. For details about your PC Card, see the information supplied with the Card.

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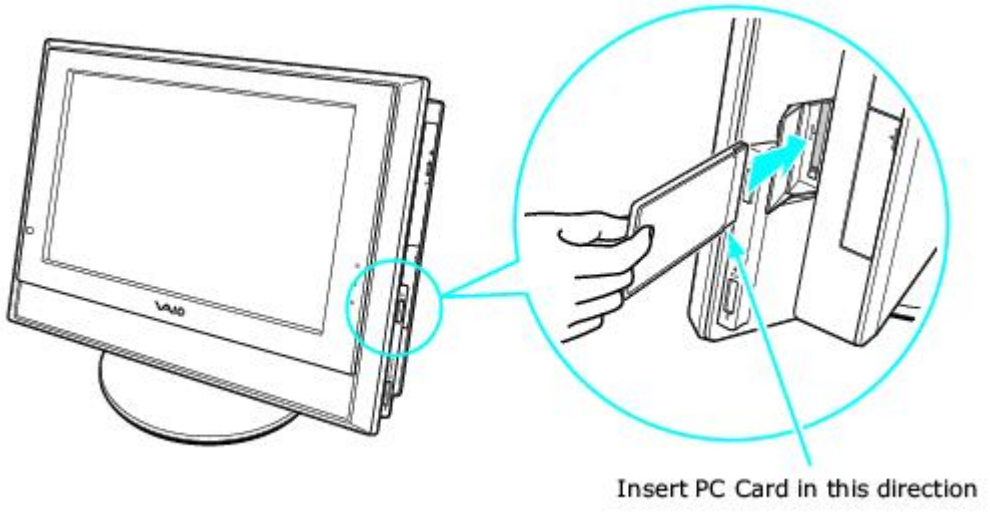
Inserting a PC Card



3. Push the PC Card gently into the slot. The card is automatically detected.

If the PC Card does not insert easily, remove it from the PC Card slot and verify that it is not upside-down or backwards. Carefully reinsert the PC Card, without forcing it into the slot.

Removing a PC Card

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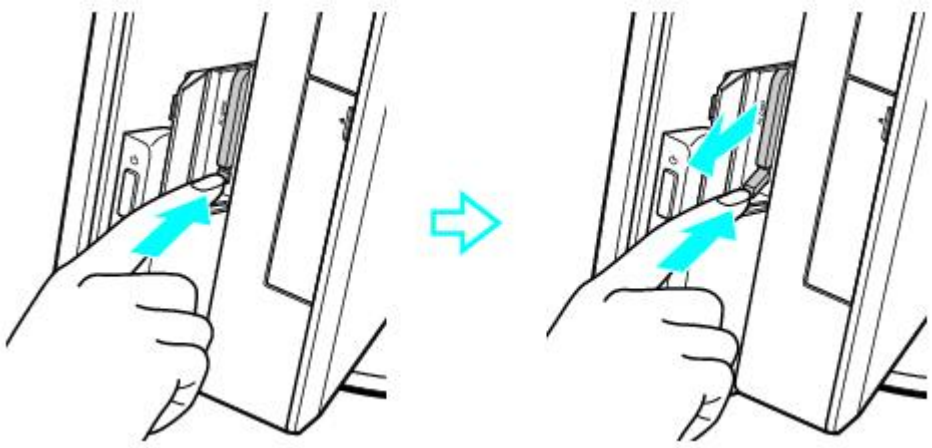
Removing a PC Card



6. When the PC Card ejects from the PC Card slot, remove the card by holding the edges and pulling it out

carefully.

7. Close the PC Card panel on the computer.

✍ If you eject the PC Card incorrectly, your computer may not work properly.

About the PCI Card Slot

Your computer has a card bus PC Card slot that supports Type I or Type II PC (PCMCIA) Cards. You do not need to shut down your computer when inserting or removing a PC Card. For details about your PC Card, see the information supplied with the Card.

Inserting a PC Card

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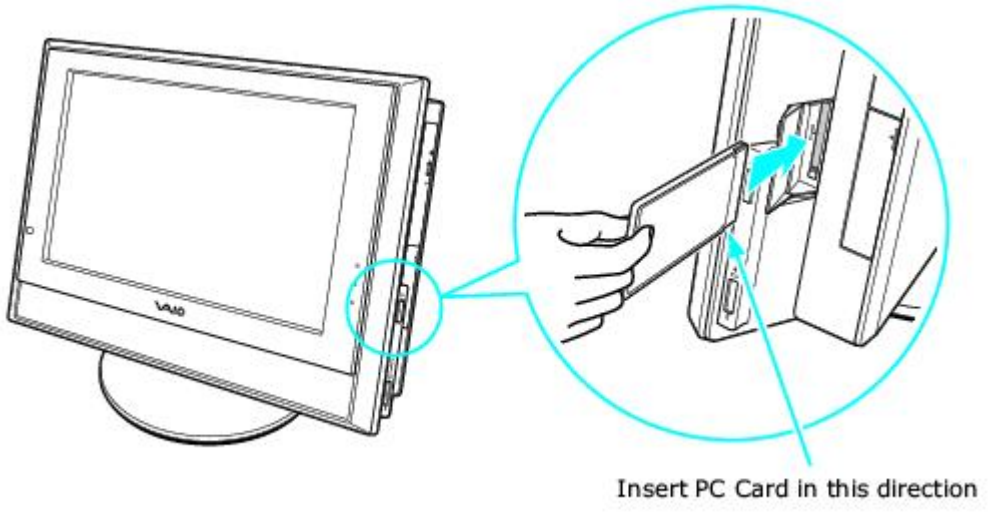
2. With the label facing towards the front of the computer, insert the PC Card into the PC Card slot.

Inserting a PC Card



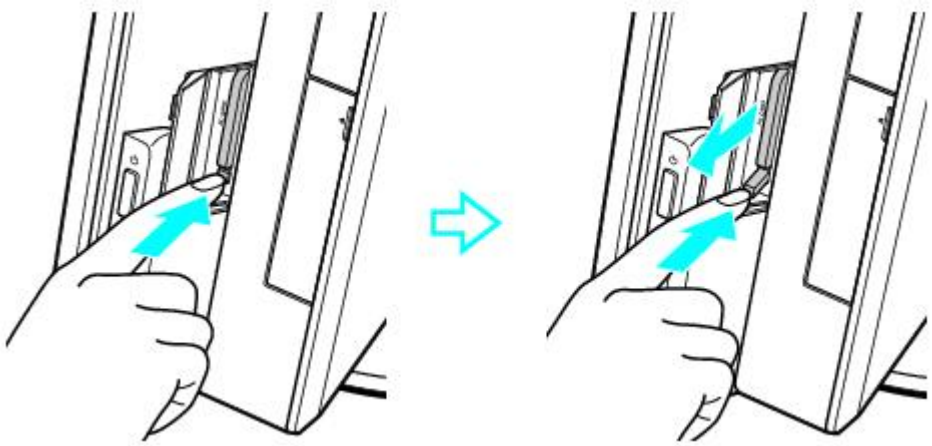
3. Push the PC Card gently into the slot. The card is automatically detected.

If the PC Card does not insert easily, remove it from the PC Card slot and verify that it is not upside-down or backwards. Carefully reinsert the PC Card, without forcing it into the slot.

Removing a PC Card

1. Close all software programs that may access the PC Card, to avoid data loss.
2. Double-click the **Safely Remove Hardware** icon in the Windows® taskbar.
3. Click to select the name of the card that you want to eject and click **Stop**. The **Stop a Hardware Device** window appears. Click **OK**.
4. When the message, **Safe to Remove Hardware** appears, press the Eject button once to extend the button out from the computer
5. Press the Eject button again, to eject the PC Card from the computer.

Removing a PC Card



6. When the PC Card ejects from the PC Card slot, remove the card by holding the edges and pulling it out

carefully.

7. Close the PC Card panel on the computer.

✍ If you eject the PC Card incorrectly, your computer may not work properly.

Setting Up Your Computer

You can set up your system quickly and easily with the instructions provided in this section. See the specifications sheet for your computer on the Sony Online Support Web site at http://www.sony.com/pcsupport, for details about your computer's hardware configuration.

- Connecting the Power Cord
- Connecting the Wireless Keyboard
- Connecting the Wireless Mouse
- Connecting the Modem Cable
- Turning On Your Computer
- Registering Your Computer
- Turning Off Your Computer

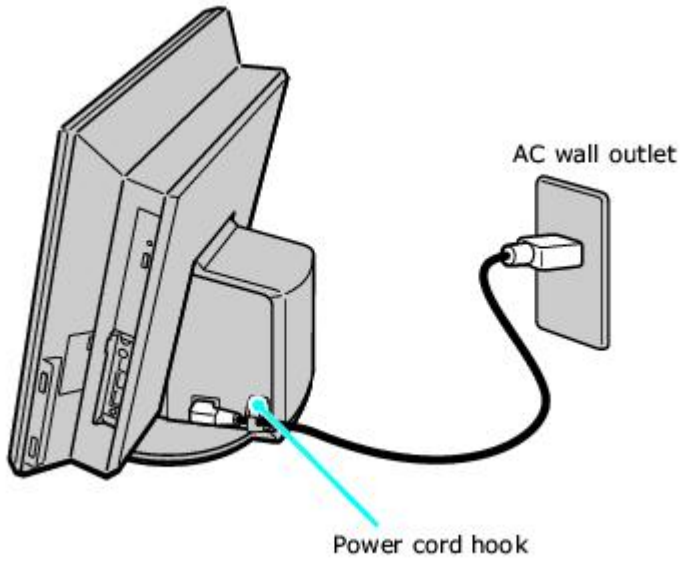
Connecting the Power Cord

The computer's power cord must be plugged into an AC power source, such as an AC wall outlet, surge protector, or Uninterruptible Power Supply (UPS), before you can establish communication with your wireless keyboard and wireless mouse.

⚠ **Your computer has the ability to be turned on its base and the power cord may become unplugged. You may lose data if your system loses power while software programs are running. Use the attached power cord hook, located on the right side of the computer, to avoid accidentally unplugging your computer.**

1. Insert the power cord into the AC input port on the back panel of the computer.
2. Pass the power cord cable over the power cord hook, located next to the AC power port.
3. Insert the power cord plug into a grounded AC wall outlet, surge protector, or Universal Power Supply (UPS).

Connecting the power cord to a power outlet



✍ Install your computer so you can easily reach the power outlet in the event of an emergency.

Connecting the Wireless Keyboard

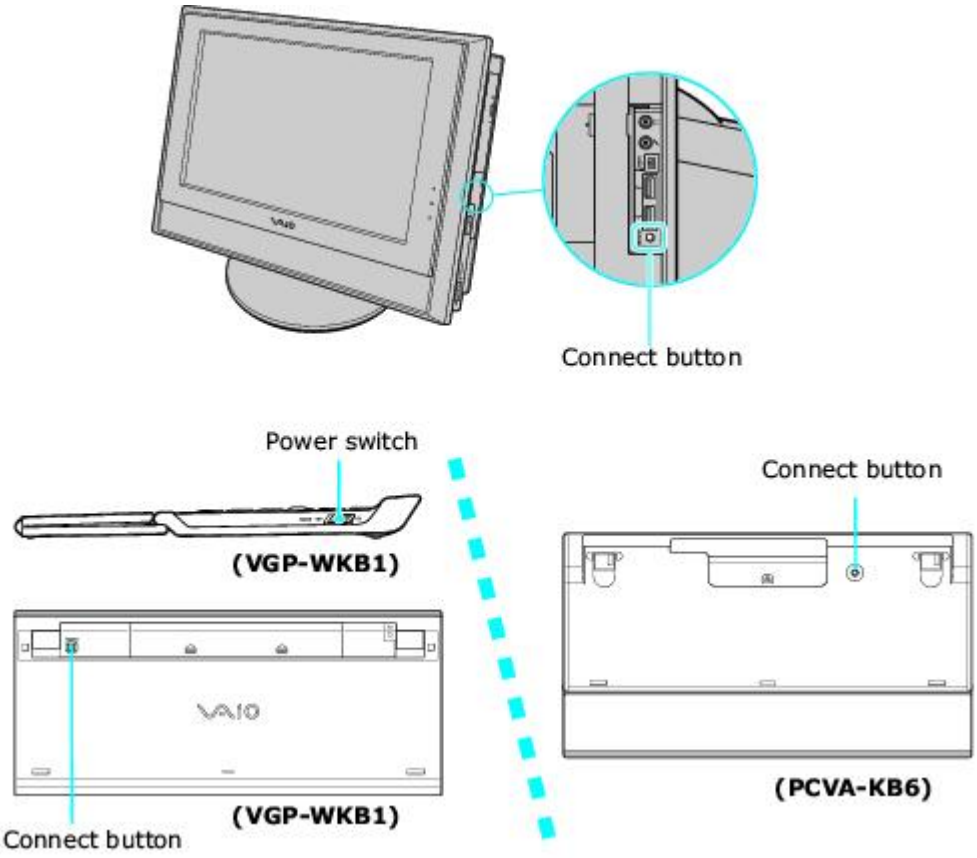
Your VAIO® computer is supplied with a wireless keyboard[1]. Before attempting to use the wireless keyboard, you must enable communication between the computer and the keyboard. To connect your wireless keyboard, it must be within 11 inches of the computer[2]

When attempting to connect the wireless keyboard, confirm that the AA batteries (supplied) are properly inserted into the keyboard before your computer is turned on.

To connect the wireless keyboard

1. Turn on your computer by pressing the power button.
2. For the keyboard model, **VGC-WKB1**, slide the power switch to the **On** position. The power switch is located on the side of the keyboard.
3. Immediately press the **CONNECT** button, located on the right panel of the computer.
4. Turn the wireless keyboard over.
5. Press the **CONNECT** button[3] on the bottom of the keyboard, to activate communication between the wireless keyboard and the computer.

Connecting the keyboard



Additional information about using a wireless keyboard

The wireless keyboard requires unobstructed communication with the system unit for proper operation.

- To maintain good communication, operate your wireless keyboard within the distance limitations of keyboard[1].
- Confirm that the supplied AA batteries are properly installed.
- Press the **CONNECT** button located on the right panel of the computer first, and then press the **Connect** button on the bottom of the keyboard.
- Verify the infrared receiver on the computer's front panel is free of obstructions that may prevent proper operation.
- Avoid using radio-controlled toys or equipment, CB radios, and other wireless devices in the area near your wireless keyboard. These devices may cause interference, causing your keyboard to stop working properly.

- Do not place metal furniture near your computer or wireless keyboard, as this may create interference, causing your keyboard to stop working properly.

Do not mix old (used) and new batteries when replacing batteries in the wireless keyboard. Always use the same type and manufacture of battery — do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the keyboard.

[1] The supplied wireless keyboard model varies with the computer model purchased.

[2] Operate the keyboard, VGP-WKB1, within 32 feet of the computer.
Operate the keyboard, PCVA-KB6, within 2.5 feet of the computer.

[3] The location of the wireless keyboard's **Connect** button varies between different keyboard models.

Connecting the Wireless Mouse

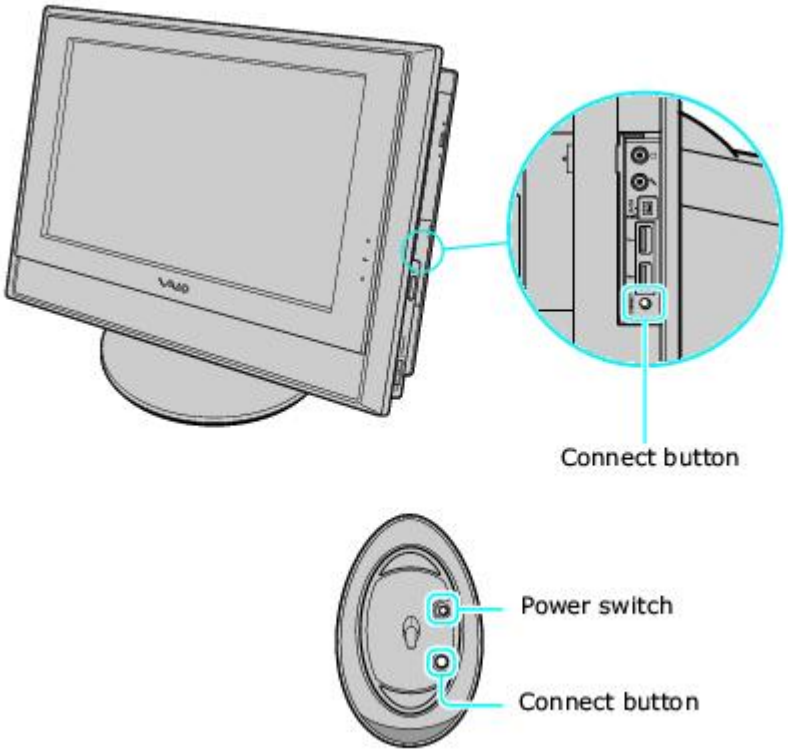
Your VAIO® computer is supplied with a wireless mouse. Before attempting to use the wireless mouse, you must enable communication between the computer and the mouse. To connect your wireless mouse, it must be within 11 inches of the computer[1].

When attempting to connect the wireless mouse, confirm that the AA batteries (supplied) are properly inserted into the mouse before your computer is turned on.

To connect the wireless optical mouse

1. Turn on your computer by pressing the power button.
2. Turn the wireless mouse over and slide the power button to the **ON** position.
3. Immediately press the **CONNECT** button on the right panel of the computer.
4. Press the **CONNECT** button on the bottom of the mouse.

Connecting the mouse



5. Place the optical mouse on an appropriate surface to enable tracking.

Additional information about using a wireless optical mouse

A wireless optical mouse requires unobstructed communication with the system unit for proper operation.

- To maintain good communication, operate your wireless mouse within the distance limitations of the mouse[1].
- Confirm that the supplied AA batteries are properly installed.
- Press the **CONNECT** button located on the right panel of the computer first, and then press the **Connect** button on the bottom of the mouse.
- Verify the infrared receiver on the computer's front panel is free of obstructions that may prevent proper operation.
- Avoid using radio-controlled toys or equipment, CB radios, and other wireless devices in the area near your wireless mouse. These devices may cause interference, causing your mouse to stop working properly.
- Do not place metal furniture near your computer or wireless mouse, as this may create interference, causing your mouse to stop working properly.

Do not mix old (used) and new batteries when replacing batteries in the wireless mouse. Always use the same

type and manufacture of battery — do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the mouse.

A wireless optical mouse requires an appropriate surface texture in order to provide precision pointing and tracking.

- Use surfaces such as plain paper, card stock, or fabric that have minimal repetitive patterns.
- Avoid surfaces such as mirrors, smooth glass, or magazines that have half- tone printing.

[1] Operate the mouse, VGP-WMS1, within 32 feet of the computer.
Operate the mouse, PCVA-MS2, within 2.5 feet of the computer.

Connecting the Modem Cable

Your computer is equipped with a single modem line jack to connect your installed modem with your telephone wall jack. To use your wall jack for both telephone and modem lines, purchase an additional RJ-11 telephone cable and a "1-to-2" jack adapter device (splitter).

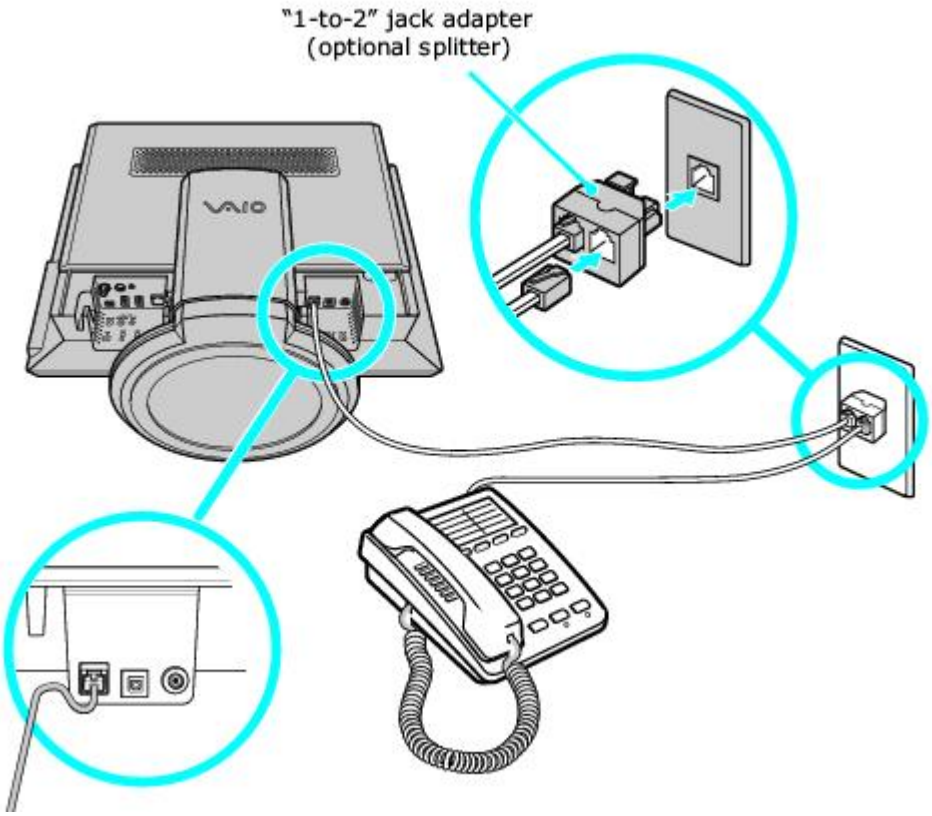
To connect the modem

1. Unplug your telephone from the wall jack and set aside.
2. Plug the supplied modem cable into the modem line jack, located on the interior panel of your computer.
3. Pass the modem cable through the cable guide to protect against accidental disconnection.
4. Plug the other end of the modem cable into the telephone wall jack.

To connect the telephone and modem cables

1. Unplug your telephone cable from the wall jack.
2. Insert the telephone cable into one of the RJ-11 jacks on a splitter device (optional).
3. Insert one end of the modem cable (supplied) into the other RJ-11 jack on the splitter device.
4. Insert the plug end of the splitter device into the wall jack.
5. Plug the modem cable into the modem line jack, located on the interior panel of your computer.
6. Pass the modem cable through the cable guide to protect against accidental disconnection.

Connecting the telephone and modem cables

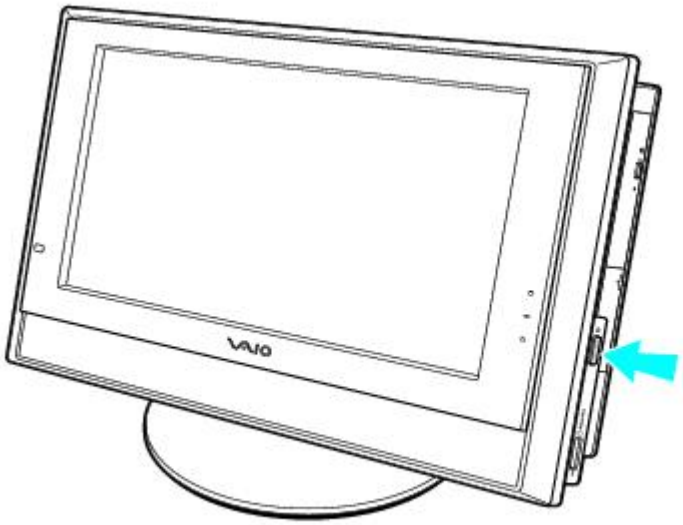


Your computer has a protective sticker covering the Ethernet port. Connect only 10BASE-T and 100BASE-TX cables to the Ethernet port. Using other cables or a telephone cable may result in an electric current overload that can cause a malfunction, excessive heat, or fire in the port. For help on connecting to a network, see your network administrator.

Turning On Your Computer

Press the power button to turn the computer on. When you start your computer, it may detect new hardware and prompt you to restart your computer. Respond to this prompt immediately.

To turn on your computer



Registering Your Computer

Register your computer and take advantage of Sony's commitment to quality customer support[1].

About the benefits of registering with Sony

- **Sony Customer Support —** Communicate with a Support Representative to troubleshoot problems you may be having with your computer.
- **Limited warranty —** Protect your investment. See the Limited Warranty Card for more details.

You are prompted to register your computer the first time you turn on the computer. Follow the on-screen instructions to complete the registration process. If you are not able to register your computer during the first session, you can register your computer online at the Sony VAIO PC Registration Web site. Go to http://www.sony.com/vaioregistration.

[1] Sony product registration is voluntary; failure to register will not diminish your limited warranty rights.

Turning Off Your Computer

Follow these steps when you are ready to turn off your computer for an extended period of time.

⚠ **To avoid loss of data, do not use the Power button to turn off the computer.**

To turn off your computer

1. Click **Start** in the Windows® taskbar, then select **Turn Off Computer**.

   The **Turn Off Computer** dialog box appears.

2. Select the **Turn Off** option.

   ✍ Respond to any prompts about saving your documents.

3. Wait for your computer to turn off automatically—the power indicator light turns off.

4. Turn off any peripheral devices connected to your computer.

   ✍ If you plan to stop using your computer for a short period of time, use Stand by mode.

About the power button

If your computer stops responding, press and hold the Power button for more than six seconds to force your system to shut down. You may need to repeat this procedure if your computer does not shut down on the first attempt.

Setting Up TV Viewing

Certain VAIO® computer models have the Sony VAIO Zone software installed, enhancing your music, TV, and video enjoyment. VAIO Zone software provides options for TV, DVD, and video viewing, personal video recording, and music playback. This section describes how to set up your television, TV channels, set-top box, and other features[1].

- To set up TV connections
- Setting up TV viewing

[1] The hardware configuration of your computer may vary from the illustrations shown in this section. Go to the Sony Online Support Web site at http://www.sony.com/pcsupport, to see the specifications sheet for your computer

To set up TV connections

The best method of connecting your computer system, TV monitor or display, and cable service access, is determined by the type of cable connection or service available in your home.

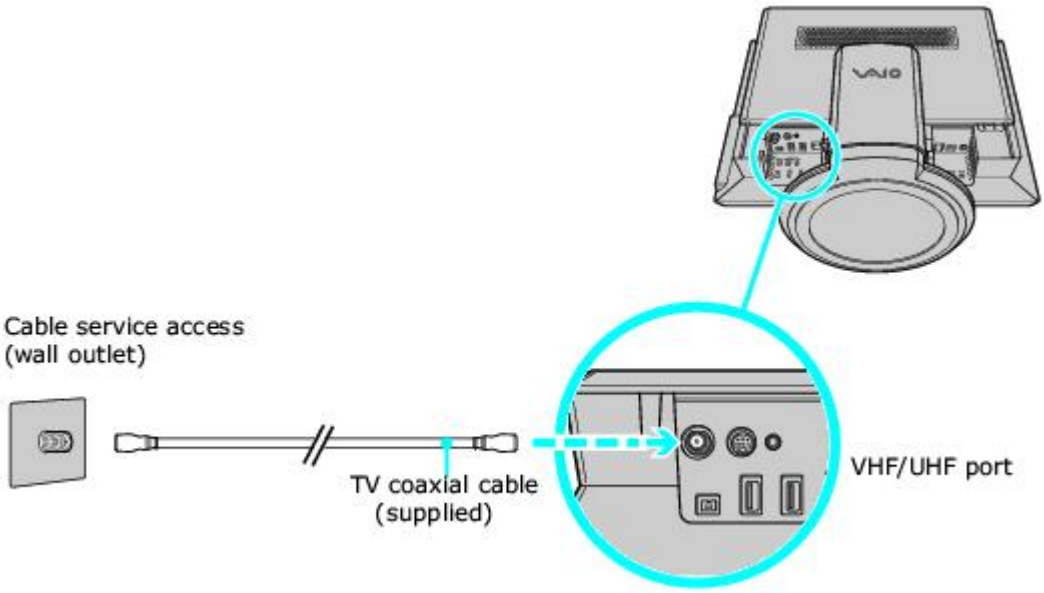
✍ Your VAIO® computer is supplied with certain cables. Your in-home cable access may require extra cables, adapters or connection equipment not supplied with your computer.

Connecting to standard cable access (CATV)

Option 1

1. Connect one end of the TV coaxial cable (supplied) to your cable service access.
2. Connect the other end of the TV coaxial cable to the VHF/UHF port on the interior panel of your computer.

To connect in CATV mode (Option 1)

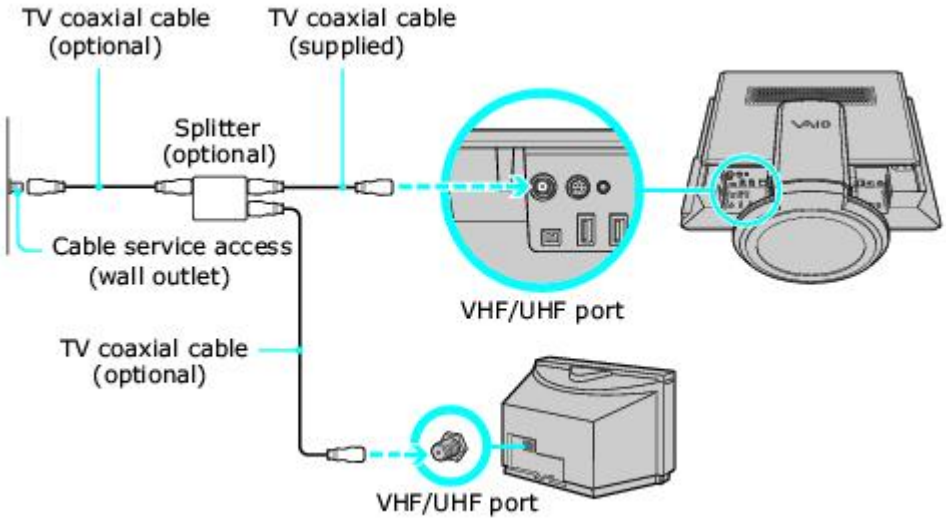


Option 2

1. Connect one end of a TV coaxial cable (optional) to your cable service access. Connect the other end to the single-connection end of a splitter adapter (optional).
2. Connect the TV coaxial cable (supplied) to the double-connection end of the splitter adapter. Connect the other end to the VHF/UHF port on the interior panel of your computer.

   Pass the TV coaxial cable through the cable guide to avoid accidental disconnection.
3. Connect a third TV coaxial cable (optional) to the double-connection end of the splitter adapter. Connect the other end to the VHF/UHF port on the rear of your TV monitor or display.

To connect in CATV mode (Option 2)



Connecting to a standard antenna (air)

You can connect your computer to an indoor/outdoor antenna system, using Option 1 or 2 from the previous section, Connecting to standard cable access (CATV). Depending on the type of antenna system in your home, your connection may require a VHF/UHF RF combiner/transformer (optional) to connect your computer and the indoor/outdoor antenna system.

If you are connecting to an indoor/outdoor antenna, you may need to reorient the antenna for best reception.

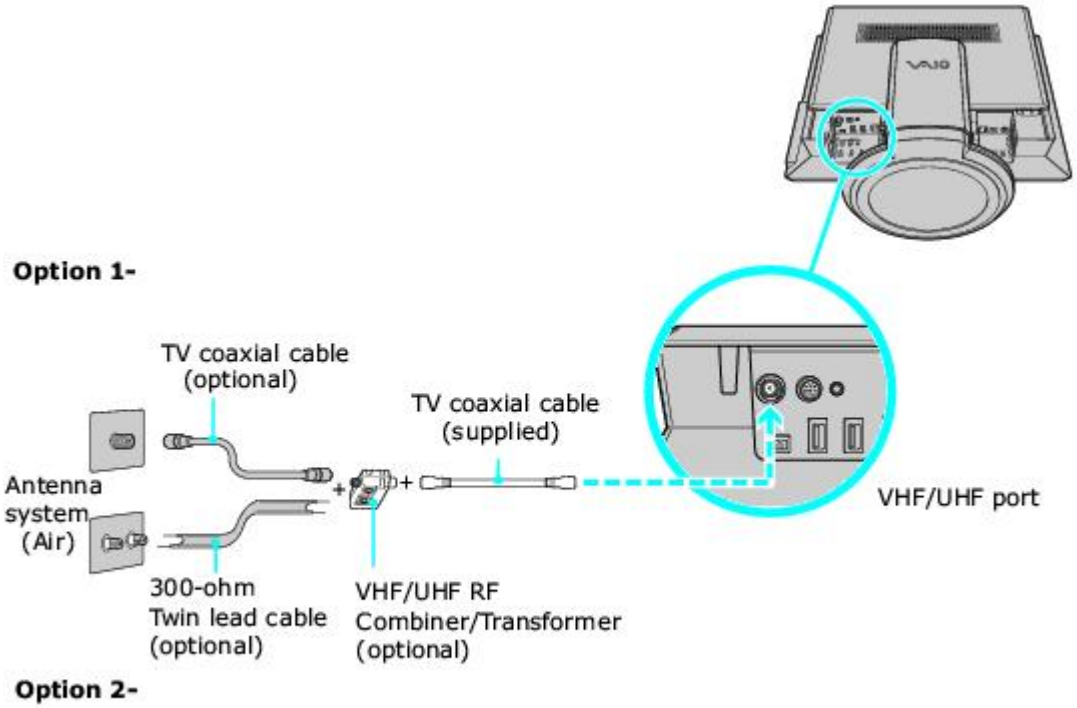
Option 1

1. Connect one end of a TV coaxial cable (optional) to your antenna outlet. Connect the other end to a VHF/UHF RF combiner/transformer (optional).
2. Connect the TV coaxial cable (supplied) from the combiner/transformer to the VHF/UHF port on the interior panel of your computer.

Option 2

1. Connect both ends of the antenna's twin lead cable to the screw-type grips on the combiner/transformer.
2. Connect the TV coaxial cable (supplied) from the combiner/transformer to the VHF/UHF port on the interior panel of your computer.

To connect in standard antenna mode (air)



Your VAIO® computer is supplied with certain cables. Depending on your in-home cable access, you may require extra cables, adapters or connection equipment not supplied with your computer.

Connecting with a cable or satellite set-top box (STB)

You can connect your computer to cable service access that uses a set-top box (cable or satellite). When using the set-top box (STB) setup, you can only change channels through the STB, using its controls or supplied remote control.

When using the STB setup:

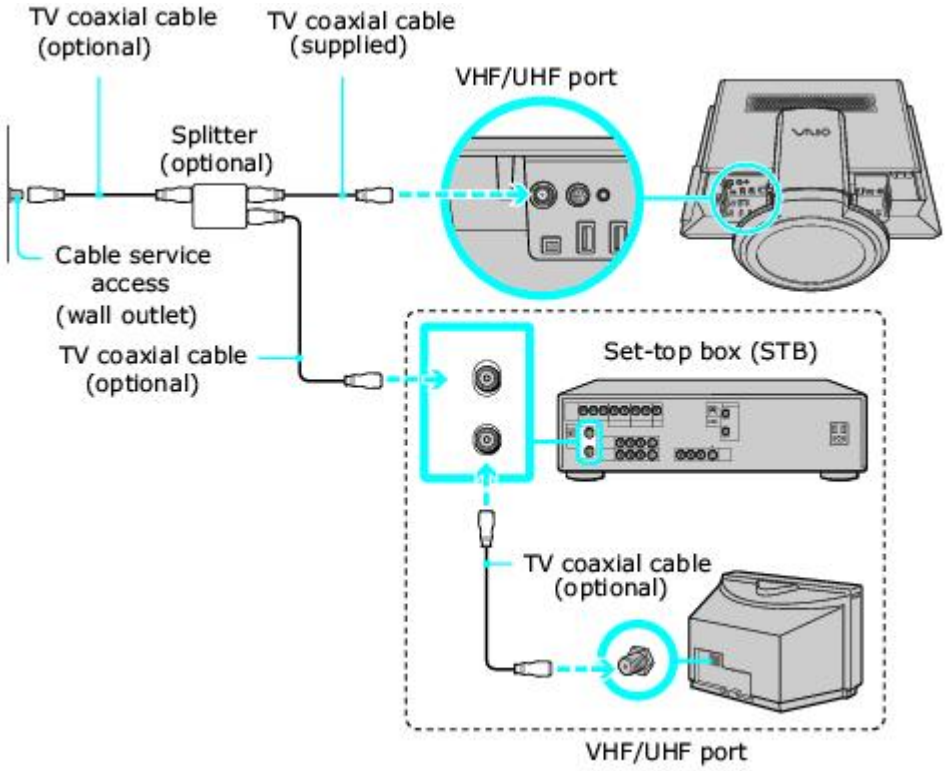
- The remote control cannot be used to change TV channels. You can use the remote control to set VAIO Zone software to the appropriate channel-out number (channel 3, 4, etc.) or to the direct video input specified by your cable or satellite service provider.
- A standard TV remote control cannot be used to change TV channels while using a STB. You can use your TV remote control to set the TV to the channel-out number (channel 3, 4, etc.) or direct video input specified by your cable or satellite service provider.
- You may be able to use a universal remote control or commander to change TV channels, if the device is able to control the STB.

Cable/satellite service, equipment, and features, may vary between service providers. Contact your cable or satellite service provider for details on using STB equipment and accessories.

Option 1

1. Connect one end of a TV coaxial cable (optional) to your cable service access. Connect the other end to the In jack on the back panel of your set-top box (STB).
2. Connect a second TV coaxial cable (optional) to the Out jack on your STB. Connect the other end to the single-connection end of a splitter device (optional).
3. Connect a third TV coaxial cable (supplied) to the double-connection end of the splitter device. Connect the other end to the VHF/UHF port on the interior panel of your computer.
4. Connect a fourth TV coaxial cable (optional) to the double-connection end of the splitter device. Connect the other end to the VHF/UHF port on the rear of your TV monitor or display.

To connect in STB mode (Option 1)



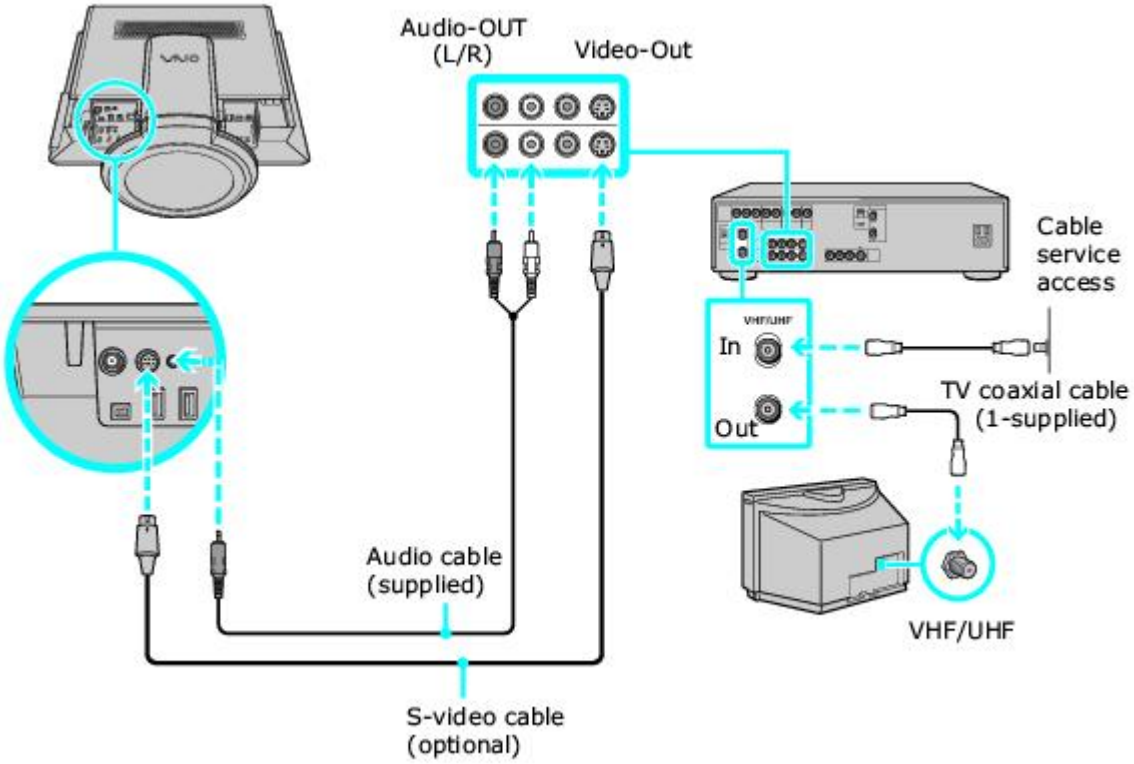
Option 2

1. Connect one end of the TV coaxial cable (supplied) to your cable service access. Connect the other end to the In jack on the back panel of your set-top box (STB).
2. Connect a second TV coaxial cable (optional) to the Out jack on your STB unit. Connect the other end to the VHF/UHF port on the rear of your TV monitor or display.

3. Connect the double mini-plugs of the audio cable (supplied) to the Audio-OUT (L/R) jacks on the back panel of your STB unit, matching the plug and jack colors.

4. Connect the single plug end of the audio cable to the Audio In jack on the interior panel of your computer.

To connect in STB mode (Option 2)



5. Connect one end of an S-video cable (optional) to the Video-Out jack on the back panel of your STB unit.

6. Connect the other end of the same S-video cable to the S-video In jack on the interior panel of your computer.

✍ The video cable adapter (supplied) can be used with a video cable (optional) to connect your set-top box to the computer's S-video In jack.

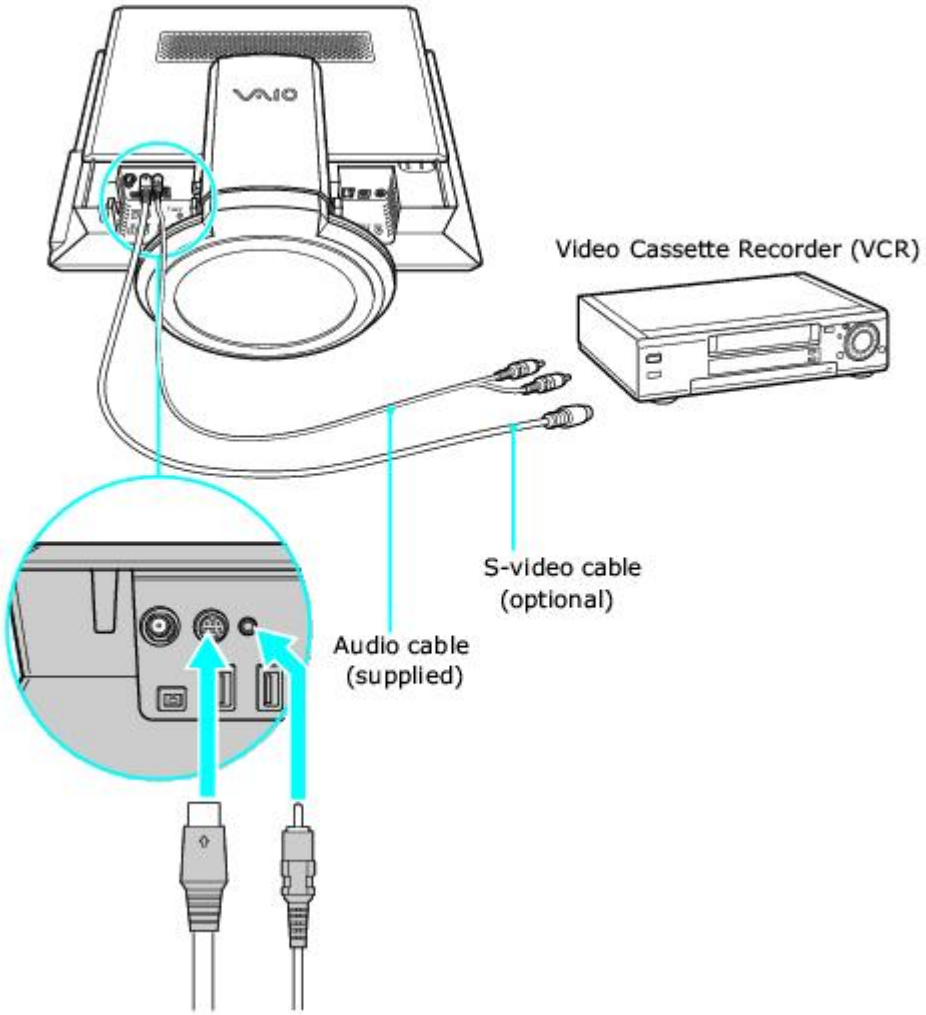
Setting up additional equipment

This section illustrates how to set up additional equipment.

To connect a compatible VCR or camcorder

Your VAIO® computer has both audio and video connection capability. You can locate the appropriate connections on the interior panel of the system unit. You can connect a VCR or camcorder, using the audio jack and video port. Your VCR or camcorder may have either standard video or S-video connection capability.

To connect a VCR or camcorder



The video cable adapter (supplied) can be used with a video cable (optional) to connect your VCR to the computer's S-video In jack.

Connecting a TV monitor (display)

1. Connect an S-video cable (optional) to the S-video In jack, located on the interior panel of your computer.

2. Connect the other end of the same cable to the S-video Out jack on your TV monitor or display, located on either the side or back of your TV monitor.

3. Connect the single-jack end of an audio cable (optional) to the Audio In jack, located on the interior panel of your computer. Connect the double-jack end of the audio cable to the Audio-In (L/R) on your TV monitor or display, located on either the side or rear of your TV monitor/display.)

Setting up TV viewing

When starting VAIO Zone software for the first time, you are prompted to set up your TV channel source and establish the listings for your local TV program guide. The VAIO Zone setup wizard opens automatically to provide step-by-step instructions.

Setting your computer's time and date

To maintain accuracy for your TV program guide listings and for timer recording, verify that your computer's time and date settings are correct. The time and date settings are displayed in the Windows® taskbar notification area.

To correct these settings:

1. Right-click with your mouse, or use the pointing device's right button.

   A shortcut menu appears.

2. Select **Adjust Date/Time**, and a dialog box appears.

3. Correct the date and time, if necessary.

Starting VAIO Zone software

You can start VAIO Zone software using your remote control, wireless mouse, or the wireless keyboard's pointing device.

To start VAIO Zone software with the remote control

1. Point the remote control towards the infrared receiver on the front panel of the computer.
2. Press the **VAIO** button on the remote control.

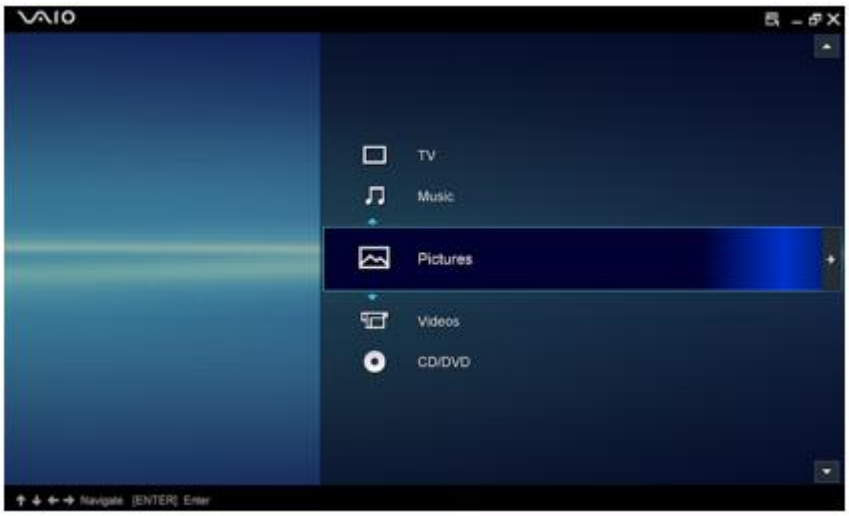
   The VAIO Zone main window appears.
3. Use the direction arrows and **ENTER** button to locate options and activate selections.

To start VAIO Zone software with the wireless mouse or pointing device

1. Click **Start** in the Windows® taskbar and select **VAIO Zone** from the Start menu.

   The VAIO Zone main window appears.
2. Use the mouse or pointing device to locate options and activate selections.

VAIO Zone main window



Starting the setup wizard (first time use)

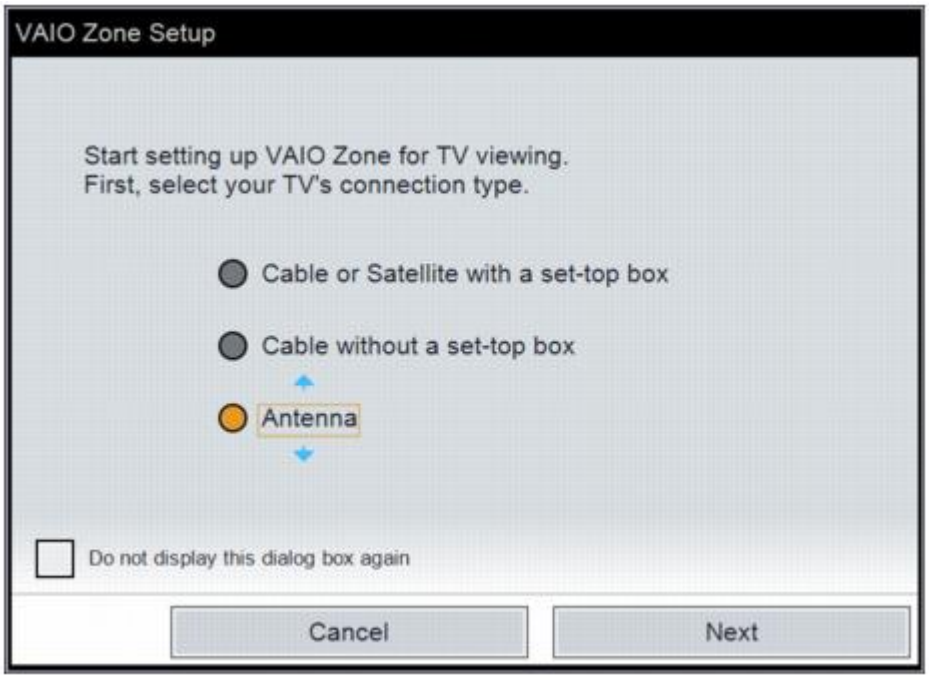
1. Connect your computer to the Internet.

   ✍ Your computer uses an active Internet connection to set up TV program listings in the electronic program guide (iEPG).

2. Click **Start** in the Windows taskbar and select **VAIO Zone** from the Start menu.

   When you start VAIO Zone software for the first time, the setup wizard appears, prompting you to select your TV connection situation.

VAIO Zone Setup wizard

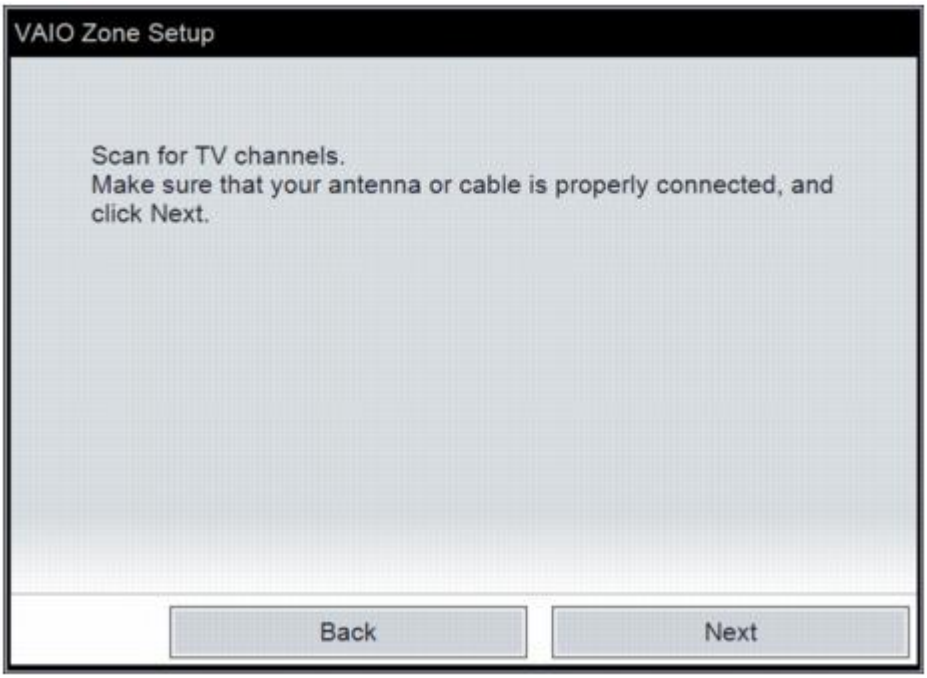

VAIO Zone Setup
Start setting up VAIO Zone for TV viewing.
First, select your TV's connection type.
Cable or Satellite with a set-top box
Cable without a set-top box
Antenna
Do not display this dialog box again
Cancel
Next

3. Select the option that best describes your TV connection type and select **Next**.

   - **Cable or Satellite with a set-top box —** Select this option if your TV signal is received through a digital cable or satellite service set-top box.
   - **Cable without a set-top box —** Select this option if you are using a TV coaxial cable to connect the cable service access (wall outlet), directly to your computer.
   - **Antenna —** Select this option if you connect an aerial antenna's cable directly to your computer.

   ✍ If you are not sure of the type of cable connection to select, contact your cable service provider for more information.

VAIO Zone Setup wizard - TV channel scan



4. Follow the on-screen instructions, if necessary, and Select **Next**.

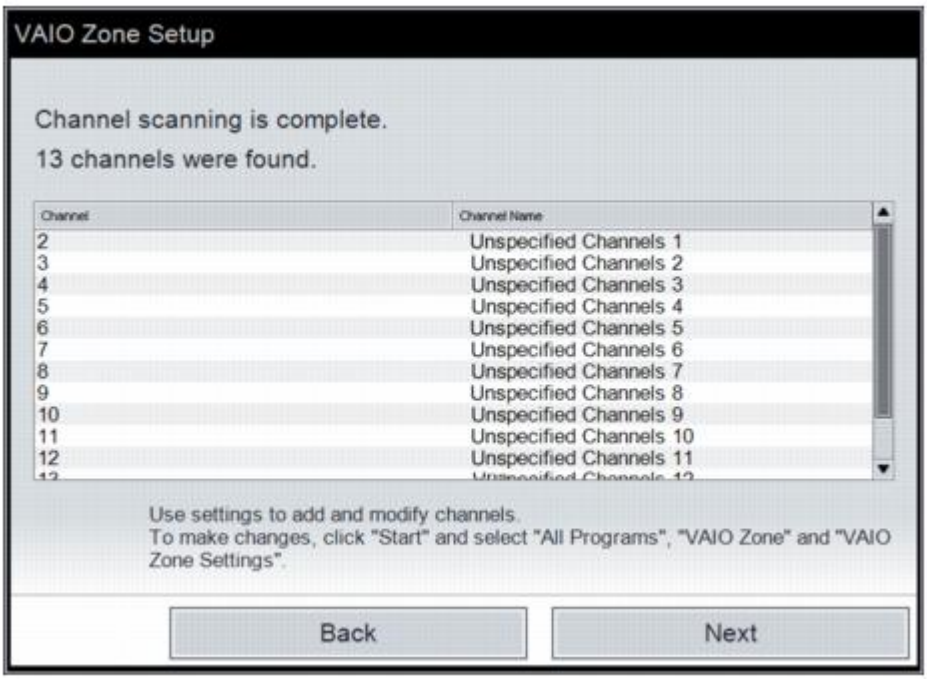
While VAIO Zone software is scanning for TV channels, you may see or hear intermittent TV programming. This is part of the channel scanning process.

VAIO Zone Setup wizard - Channel scanning in process

VAIO
VAIO Zone Setup
Scanning for TV channels
CH C64 / CH C125
(This may take several minutes to complete.)
To cancel scanning and complete the channel settings, click Stop.
Stop

When channel scanning is complete, the wizard displays available channels.

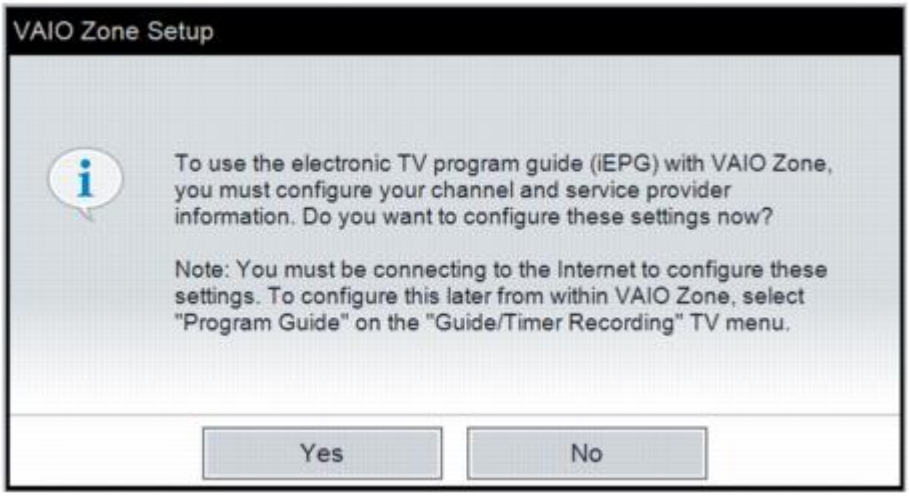
VAIO Zone Setup wizard - Scanning complete


VAIO Zone Setup
Channel scanning is complete.
13 channels were found.
Channel
Channel Name
2 Unspecified Channels 1
3 Unspecified Channels 2
4 Unspecified Channels 3
5 Unspecified Channels 4
6 Unspecified Channels 5
7 Unspecified Channels 6
8 Unspecified Channels 7
9 Unspecified Channels 8
10 Unspecified Channels 9
11 Unspecified Channels 10
12 Unspecified Channels 11
Use settings to add and modify channels.
To make changes, click "Start" and select "All Programs", "VAIO Zone" and "VAIO Zone Settings".
Back
Next

5. If the channels displayed are correct and complete, select **Next**.

   A message window appears, prompting you to begin configuring your electronic TV program guide.

VAIO Zone Setup wizard - Set up electronic TV program guide


VAIO Zone Setup
To use the electronic TV program guide (iEPG) with VAIO Zone, you must configure your channel and service provider information. Do you want to configure these settings now?
Note: You must be connecting to the Internet to configure these settings. To configure this later from within VAIO Zone, select "Program Guide" on the "Guide/Timer Recording" TV menu.
Yes
No

6. Select **Yes** to begin iEPG setup.

   The **iEPG Channel Setup - Step 1** appears.

If you are not connected to the Internet, you cannot set up the electronic TV program guide (iEPG). VAIO Zone software begins playing a current TV program.

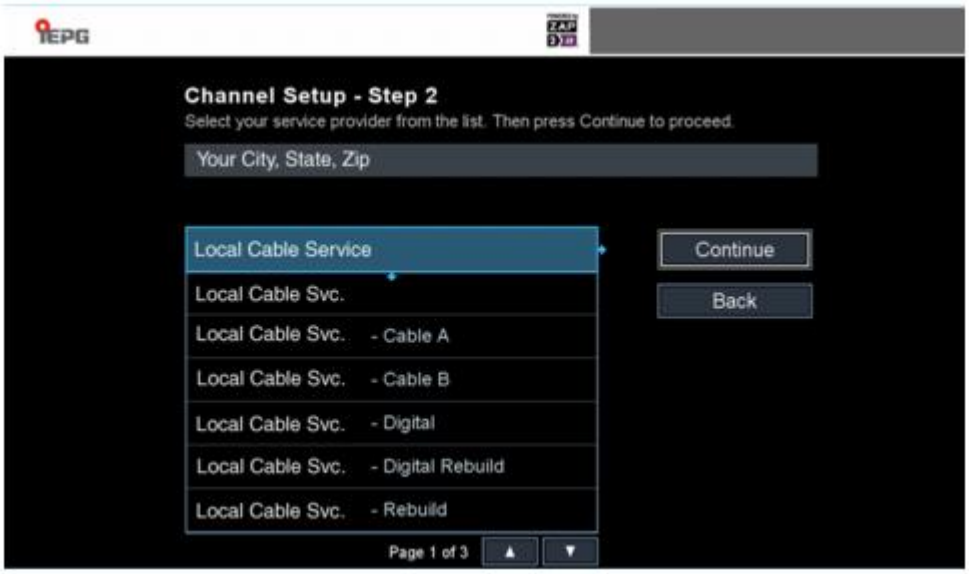
iEPG Channel Setup - Step 1

iEPG
Channel Setup - Step 1
To see your TV Listings, enter your ZIP Code and press Continue.
A B C D E F G
H I J K L M N
O P Q R S T U
V W X Y Z 0 1
2 3 4 5 6 7 8
9 CLR SP DEL
Continue
Cancel

7. On the iEPG Channel Setup window (Step 1), use the remote control or wireless mouse to enter in your zip code. Select **Continue**.

   A list of local cable service providers appears.

iEPG Channel Setup - Step 2


Channel Setup - Step 2
Select your service provider from the list. Then press Continue to proceed.
Your City, State, Zip
Local Cable Service
Local Cable Svc.
Local Cable Svc. - Cable A
Local Cable Svc. - Cable B
Local Cable Svc. - Digital
Local Cable Svc. - Digital Rebuild
Local Cable Svc. - Rebuild
Page 1 of 3
Continue
Back

8. On the iEPG Channel Setup window (Step 2), use the remote control or wireless mouse to select your service provider. Select **Continue**.

   A listing of available TV channels appears.

iEPG Channel Setup - Step 3

9. Use the remote control or the mouse to scroll through the TV channel lineup, to verify that the listing is correct. Select **Yes** to confirm the lineup.

10. Press **Guide** on the remote control to view the electronic TV program guide, or press **Live TV** on the remote control to begin watching TV.

Additional information about VAIO Zone software

VAIO Zone software is a media player and a personal video recorder software that provides many options for

- Watching TV programs, DVD movies, and other video content.
- Copying TV programs and your own video content to DVDs.
- Listening to music and creating your own audio CDs.
- Creating slide shows using your favorite photos, adding personal touches like music and transition effects.

Locating VAIO Zone software Help

You can find instructions and other helpful information about VAIO Zone software in the software's Help.

To access the Help:

1. Click **Start** in the Windows® taskbar, and point to **All Programs**.
2. Point to **VAIO Zone**, and then click on **VAIO Zone Help**.

Using Memory Cards and Memory Card Readers

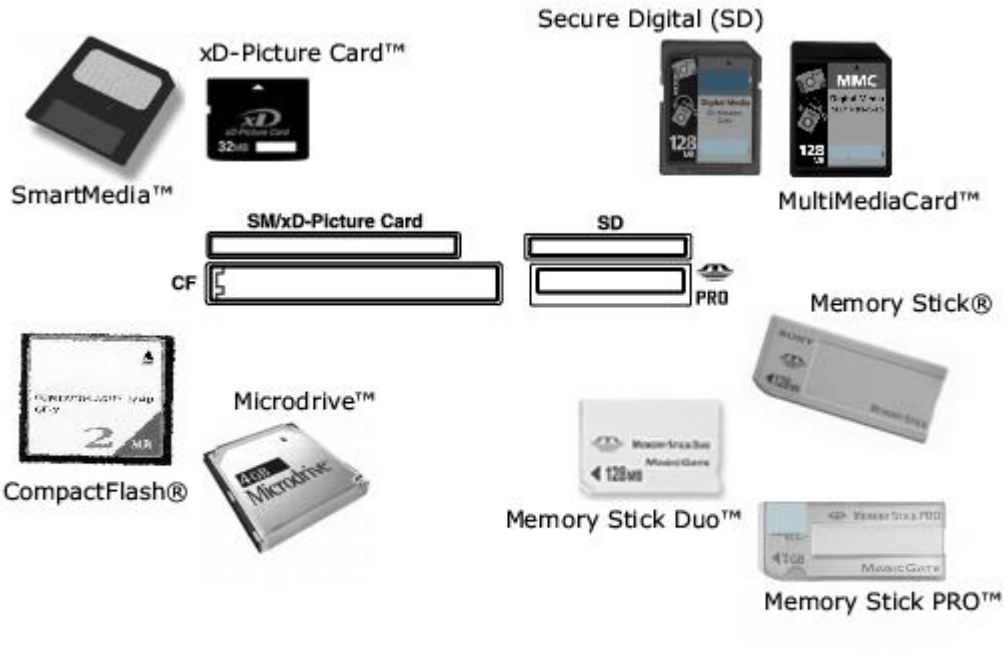
This section provides basic information about using your computer's installed memory card readers. Your computer may not be equipped with all of the memory card readers described in this section, depending on the computer model or configuration purchased. To view the installed hardware configuration for your computer, see the online Specifications sheet.

- About Your Memory Card Readers
- Inserting a Memory Card
- Removing a Memory Card
- About Memory Stick Media
- Sharing Memory Cards

About Your Memory Card Readers

Your VAIO® computer is equipped with memory card readers[1] that are compatible with many popular types of memory cards. You can use your computer's memory card readers to transfer data between digital cameras, camcorders, music players, and other audio/video devices.

Memory card readers and compatible media

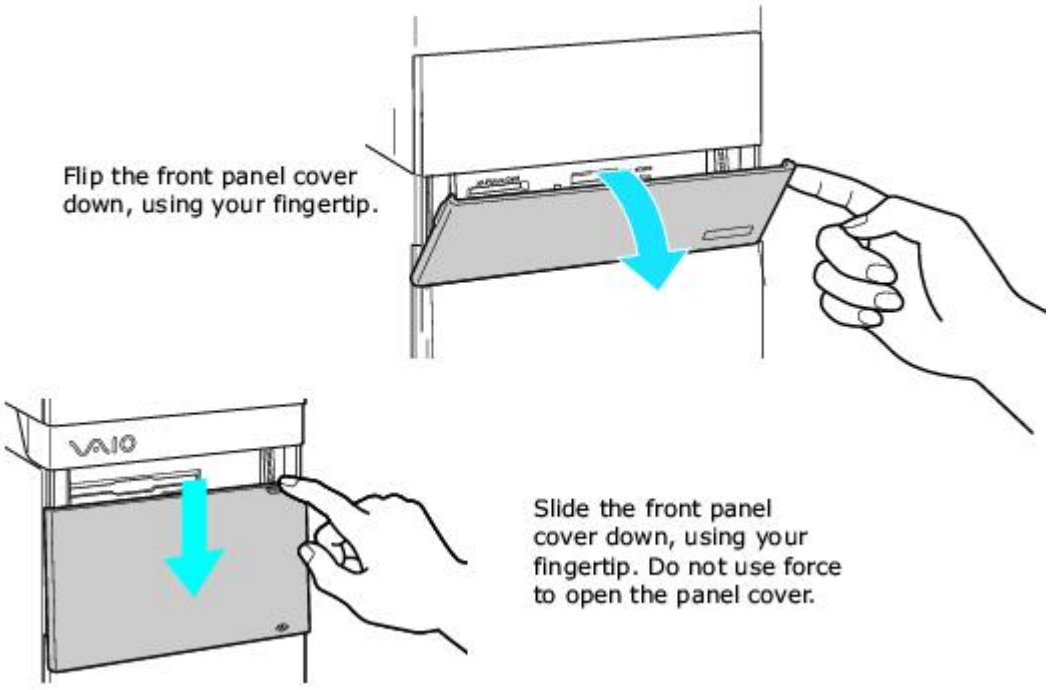


[1] Your computer may not be equipped with all of the memory card readers shown here, or the configuration may be different. To view the specifications for the installed memory card readers for your computer, see the online specifications sheet.

Inserting a Memory Card

Your memory card reader(s) may be located behind a protective cover on the front of the computer. The style and location of front panel cover varies, depending on the computer model purchased. Certain VAIO® computers do not have a covered memory card reader(s) or the readers may be located on the side panel. See your computer's specification sheet for details about your computer's memory card reader configuration.

Opening a front panel cover


Flip the front panel cover down, using your fingertip.
VAIO
Slide the front panel cover down, using your fingertip. Do not use force to open the panel cover.

1. Locate the appropriate reader for the memory card you want to use.
2. Insert the memory card into the reader, in the direction of the arrow on the media. Do not force the card into the reader.

If the memory card does not go into the reader easily, remove it and verify you are inserting it in the proper direction.

Removing a Memory Card

The correct way to remove a memory card from a memory card reader varies, depending upon the media, reader, or computer model. Use care when removing a memory card to avoid damage to the reader or card.

Do not remove a memory card while the media access indicator light is on. The card or its data may become damaged.

- **To remove a Memory Stick® media, Secure Digital (SD), MultiMediaCard , SmartMedia , or xD-Picture Card media**

  1. Press the extended part of the memory card, causing it to extend out from the reader's slot.
  2. When the card extends, carefully remove it.

- **To remove a CompactFlash media**[1]

  1. Firmly grasp the extended part of the memory card.
  2. Pull to remove from the reader.

[1] Certain Memory Stick® media can be removed using these instructions.

About Memory Stick Media

Memory Stick® media are a compact, portable, and versatile data storage media designed for exchanging and sharing digital data with compatible devices. The following types of Memory Stick media are available, but compatibility with your computer can vary.

- **MagicGate Memory Stick® media** — Provides copyright protection with authentication and encryption, using Sony® MagicGate technology. Authentication ensures that protected content is only transferred between compliant devices and media. Protected content can be recorded and transferred in an encrypted format that prevents unauthorized duplication or playback. You can store different data formats on a single Memory Stick media.

- **Memory Stick PRO media** — Provides MagicGate copyright protection and high-speed data transfer features when used with compatible Memory Stick PRO devices. VAIO® computers support Memory Stick PRO media for data storage purposes only. High-speed data transfer and MagicGate technology features, such as authentication and encryption, may not be available. You can store different data formats on a single Memory Stick media.

- **Memory Stick PRO Duo media** — Provides the same features and benefits of Memory Stick PRO media, in a form that is 1/3 smaller in size.

- **Memory Stick® media** — Provides data storage only. The Memory Stick media does not provide MagicGate technology or high-speed data transfer. You can store different data formats on a single Memory Stick media.

- **Memory Stick Duo media** — Provides the same features and benefits of MagicGate Memory Stick media, in a form that is 1/3 smaller in size.

Compatibility between software programs and Memory Stick media formats may vary. At this time, Sony suggests using only MagicGate Memory Stick media to store and transfer any data created with SonicStage or OpenMG software.

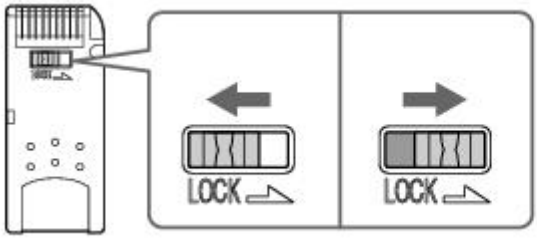
Visit the Sony online support Web site at http://www.sony.com/pcsupport regularly for the latest information on Memory Stick® media.

Memory Stick media do not support AVI file playback directly from the media. Copy the video file to your hard disk drive and then play back the file.

To protect data on Memory Stick media

Some Memory Stick media are equipped with a write-protect tab[1]. The write-protect tab prevents accidental changes to information recorded on your Memory Stick media. When you slide the write-protect tab to the LOCK position, your Memory Stick media is write-protected. You cannot delete, copy, or save information on the media while the write-protect tab in the LOCK position. When you slide the tab to the un-LOCK position, you can write to or modify your Memory Stick media's contents.

Locking the Memory Stick Media



If your computer stops recognizing your Memory Stick® media, you may have removed the media from the Memory Stick drive before the data access process completed.

If this occurs, follow these steps:

1. Remove the Memory Stick media from the slot.
2. Shut down your computer, closing any open software programs, and then turn your computer off.
3. Wait approximately 30 seconds, and then restart your computer.

Your computer recognizes the Memory Stick media, when you insert it into the Memory Stick slot again.

[1] Some Memory Stick media do not have a write-protect tab, or the write-protect tab is in a different location. For details about using your Memory Stick media, see the media's supplied information sheet.

Sharing Memory Cards

If you plan to share your memory card between your VAIO® computer and devices such as a digital camera or music player, the card must be formatted properly.

- Format the memory card by using it in the device first. See the information supplied with the device for details how to format the memory card.
- If your device does not recognize memory card that has been formatted by your computer, follow these steps:

1. Save the card's contents to your hard disk drive.
2. Reformat the memory card using the device, not your computer.

Upgrading and Maintaining Your VAIO Computer

In the future you may want to increase the functionality of your VAIO® computer. This section provides information about upgrading your system.

- Overview
- Installing Memory
- Replacing the Lithium Battery
- Replacing a Hard Disk Drive

Overview

Sony recommends contacting your local dealer for upgrade or maintenance of your new computer. Your local dealer is familiar with this specialized personal computer and is familiar with the safety practices and regulatory compliance required for modifying electronic equipment.

To locate information about your computer

See the computer's online specifications sheet for more information about your computer's hardware configuration.

To view the online specifications sheet:

1. Connect to the Internet.
2. Go to the Sony online support Web site at *http://www.sony.com/pcsupport*.
3. Click the **Documentation** link and follow the on-screen instructions to locate your model's specifications sheet.

Installing Memory

The amount of preinstalled memory can vary, depending on the system configuration purchased. Your computer may ship with all available memory slots filled. For memory replacement or upgrades, use the correct memory module for your computer's configuration.See the specifications sheet for your computer on the Sony Online Support Web site at http://www.sony.com/pcsupport, for details about the amount of memory installed in your computer.

Before upgrading your computer

Disconnect the computer from its power source and from telecommunications links, networks, or modems, before you open the unit or follow any procedures described in this section.

Failure to disconnect your computer from its power source may result in personal injury or equipment damage. Always turn the power off before you open the system or connect your computer to peripheral equipment. Otherwise, damage may occur to the integrated circuits in your computer.

Electrostatic discharge (ESD) can damage disk drives, add-on cards, and other components. Follow the procedures described here only at an ESD workstation. If such a station is not available, do not work in a carpeted area and do not handle materials that produce or hold static electricity (for example, cellophane wrappers). Ground yourself by maintaining continuous contact with an unpainted metal portion of the chassis while performing the procedure.

Your computer may not be equipped with all of the hardware features mentioned in this section. The interior hardware configuration of your system may vary from the illustrations, depending on the computer purchased.

Installing Memory

The amount of preinstalled memory can vary, depending on the system configuration purchased. Your computer may ship with all available memory slots filled. For memory replacement or upgrades, use the correct memory module for your computer's configuration.See the specifications sheet for your computer on the Sony Online Support Web site at http://www.sony.com/pcsupport, for details about the amount of memory installed in your computer.

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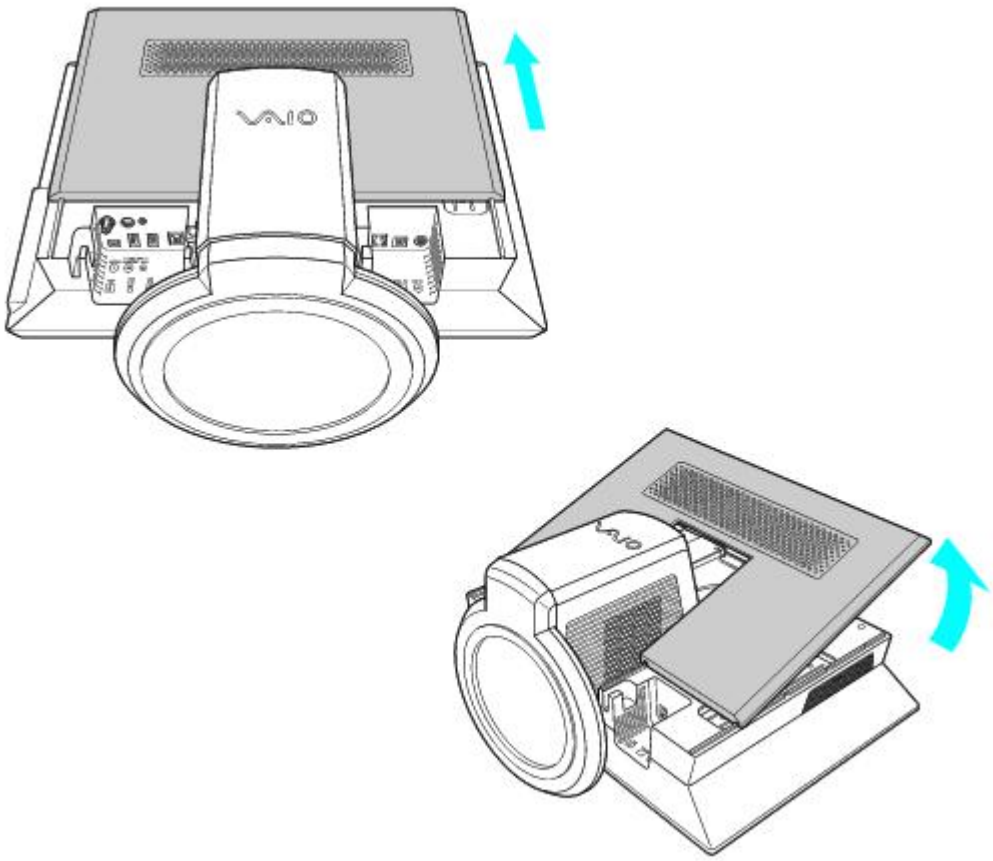
Removing the back cover

1. Shut down your computer and turn off all peripheral devices, such as your printer.
2. Unplug your computer and disconnect any peripheral devices.
3. Gently place the system unit on a flat and stable surface, with the LCD screen facing down.
4. Slide the back panel cover open, as shown.
5. Lift the cover away from the unit and set aside.

Removing the back cover

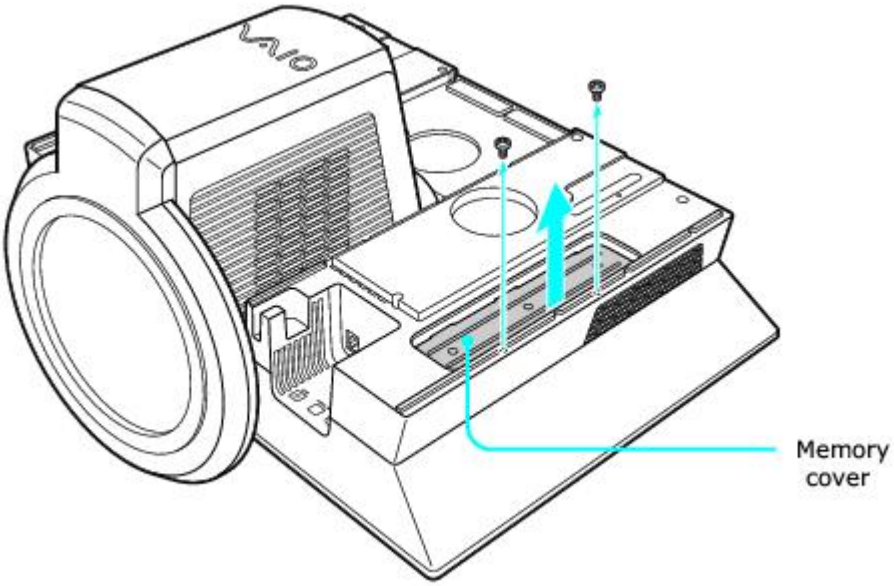


⚠ **Use caution when placing the LCD screen face-down on a table or other flat surface. The work surface must be free of dirt or debris that may damage the screen.**

Removing the memory cover

1. Remove the back cover. See Removing the back cover.
2. Remove the screws on the memory cover and set aside.
3. Lift the edge of the memory cover and disengage the memory cover tabs from the slots on the computer.

Removing the memory cover

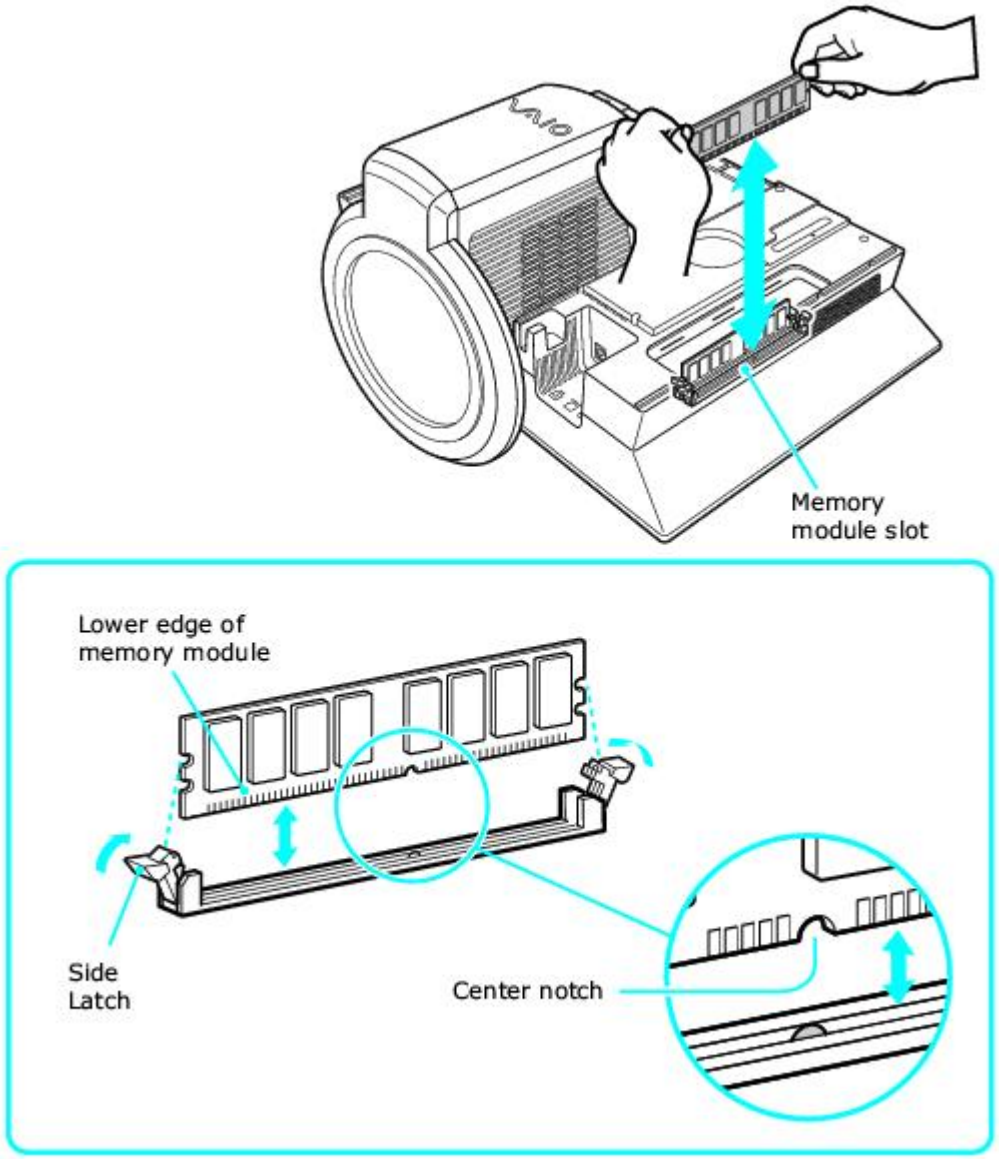


4. Remove the memory cover to access the memory module slots.

Removing a memory module

1. Locate the memory module(s) you wish to remove.
2. Push down on the latches, located on both sides of the module, to gently eject it from the slot.

Removing a memory module



3. Grasp the memory module by the sides and remove from the system unit. Store the module in a static-free bag.

Installing a memory module

1. Remove the memory module from its anti-static package, handling it by the edges.
2. Locate the center notch on the bottom edge of the memory module and align it to the center notch in the open module slot.
3. Firmly insert the lower edge of the module into the slot by pressing down evenly against the module's upper corners.

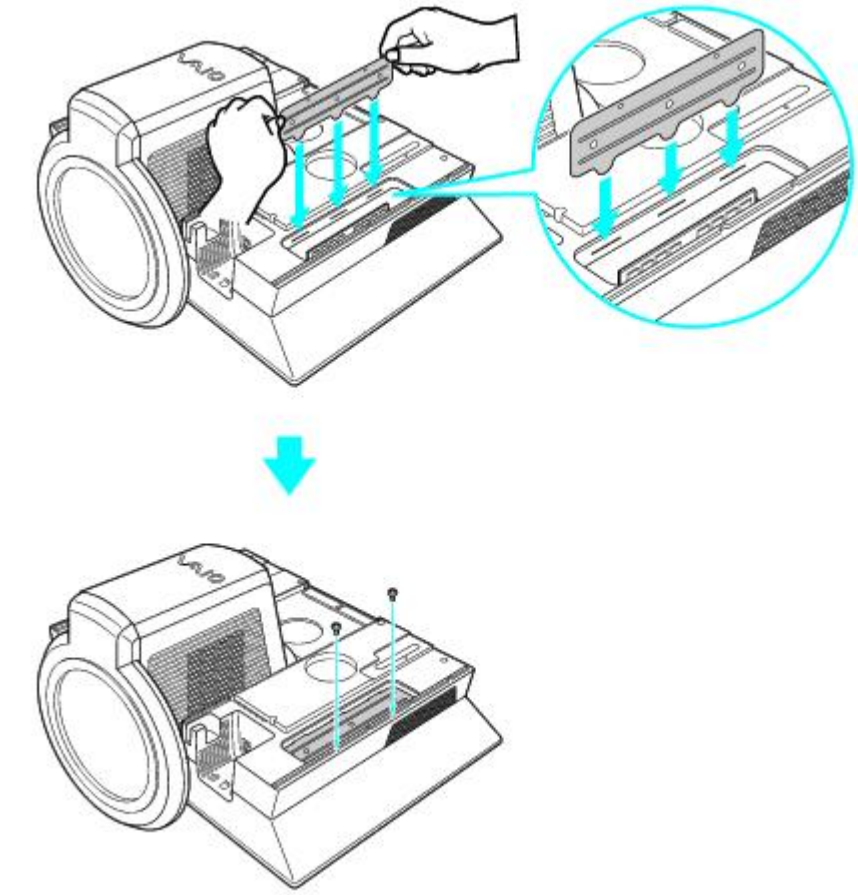
   The side latches snap into position, holding the memory module in place.

To avoid damaging a memory module or the memory module slot, move the side latches slightly outward to relieve pressure. The module is properly inserted when the side latches click into place.

Replacing the memory cover

1. Align the memory cover tabs to the slots on the computer.
2. Gently press down on the memory cover until the cover snaps into place.
3. Replace the screws in the memory cover.
4. Replace the back cover. See Replacing the back cover.

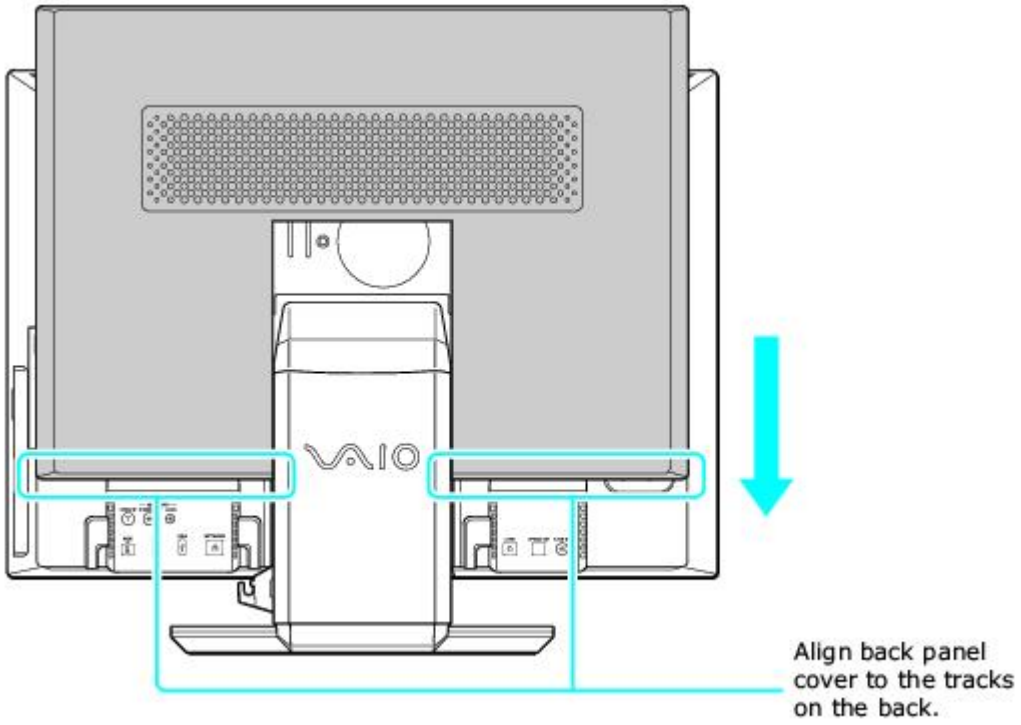
Replacing the memory cover



Replacing the back cover

1. Place the back panel cover against the computer, aligning it to the tracks on each side.
2. Gently slide the back cover onto the computer until it gently snaps into place.

Replacing the back cover



Replacing the Lithium Battery

The lithium battery weakens after several years and the system settings, such as the date and time stored in CMOS RAM, may become inaccurate. If this occurs, contact your local dealer to replace the lithium battery.

There is danger of the battery exploding if it is replaced incorrectly. Contact your local dealer to replace the lithium battery. Replace the battery only with a CR2032-type lithium battery.

Dispose of the lithium battery properly. In some areas, the disposal of lithium batteries in household or business trash may be prohibited. You can return your unwanted lithium batteries to your nearest Sony Service Center or Factory Service Center. To locate a Service Center near you, visit the Sony Computing Web site at http://www.sony.com/pcsupport.

Replacing a Hard Disk Drive

Your computer has an installed ATA-100, 3½-inch hard disk drive. Do not attempt to replace the hard drive. Contact your local dealer for replacement or upgrade of the hard disk drive.

Troubleshooting

This section describes how to solve common problems and provides helpful information about using your computer's hardware features and preinstalled software. Your computer may not be equipped with all of the features or software discussed in this section, depending on the computer model or configuration purchased.

- About VAIO Computer Functions
- About System Security
- About Media Center
- About the Mouse and Keyboard
- About the Modem
- About the Speakers
- About Using a Microphone
- About Using Peripheral Equipment

My computer does not start.

- Verify that the computer is plugged into a power source and that it is turned on. Check that the power indicator is lit on the front panel of the computer.
- Confirm that a disk is not in the floppy disk drive[1] (unless you are using a bootable floppy disk).
- Confirm that a CD or DVD is not in an optical drive (unless you are using bootable media).
- Confirm that the power cord and all cables are connected firmly.
- If you plugged the computer into a power strip or Uninterruptible Power Supply (UPS), make sure the power strip or UPS is turned on and working.
- Verify that the monitor is plugged into a power source and turned on.

  If your computer has a built-in monitor, confirm that it is plugged into an appropriate power source and that the computer is turned on.
- Verify that the brightness or contrast control dials are adjusted correctly. (See the manual supplied with your display for details.)
- Confirm that the computer is not in Stand by mode by pressing any key on the keyboard.

[1] Certain VAIO computers are not equipped with a floppy disk drive. You can purchase this equipment separately.

My computer does not start.

- Verify that the computer is plugged into a power source and that it is turned on. Check that the power indicator is lit on the front panel of the computer.
- Confirm that a disk is not in the floppy disk drive[1] (unless you are using a bootable floppy disk).
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- Verify that the brightness or contrast control dials are adjusted correctly. (See the manual supplied with your display for details.)
- Confirm that the computer is not in Stand by mode by pressing any key on the keyboard.

[1] Certain VAIO computers are not equipped with a floppy disk drive. You can purchase this equipment separately.

What can I do if my computer or software stop responding?

You can try to locate and close the software program that has stopped responding.

1. Press the **Ctrl+Alt+Delete** keys. The **Windows Task Manager** window appears.
2. From the Applications tab, locate the software program that has the status message, "**Not responding**."
3. Select the software program that has a **Not Responding** status and click **End Task**. Windows attempts to close the program.

If your computer does not respond or the software program does not close:

1. Save and close any open files, if possible.
2. Press the **Alt+F4** keys. The **Shut Down Windows**[1] window appears.
3. Click the drop-down list box and select **Restart**.
4. Click **OK**. The computer turns off and restarts.

   If the **Shut Down Windows** window does not appear:

   1. Press **Ctrl+Alt+Delete**. The **Windows Task Manager** window appears.
   2. Click **Shut Down**.
   3. Restart your computer.

If your computer still does not respond and you cannot restart, shut down your computer by pressing and holding the power button for more than six seconds.

If the software program continues to stop responding or causes your computer to stop responding, contact the software publisher or designated technical support provider.

Pressing and holding the power button for more than six seconds may result in the loss of data from files that are currently open.

[1] The window text displayed may vary.

Why does the Windows operating system stop responding during shutdown?

The Windows operating system may not shut down properly for many reasons, including incompatible or conflicting drivers, damaged files, or non-responsive hardware. For troubleshooting information, you can search Windows Help.

1. Click **Start** in the Windows taskbar and select **Help and Support**. The **VAIO Help And Support Center** menu appears.

2. Select **Fixing a Problem** and then select **Startup and Shut Down problems**. A list of specific problem topics appears on the right side of the window.

3. Select **Startup and Shutdown Troubleshooter**. Follow the on-screen instructions according to your specific situation.

Why is my computer running slowly?

- The computer's responsiveness varies depending with the number of software programs that are open and running. Close any programs that you are not currently using.
- Increasing the computer memory may also help. For information on installing memory, please see the online VAIO User Guide.

  To access the online User Guide:

  1. Click **Start** in the Windows taskbar, and then click **Help and Support**.
  2. From the **VAIO Help And Support Center** menu, click **VAIO User Guide**.

How do I change the video resolution of my display?

1. Click **Start** in the Windows taskbar, and then select **Control Panel**.
2. Select **Appearance and Themes**, and then select **Change the screen resolution**.
3. Click the **Settings** tab.
4. Change the Screen resolution and Color quality to the desired levels.
5. Click **Apply** and then click **OK**.

Why doesn't my computer resume normal operation from Stand by mode?

- If your keyboard has a Stand by key , press it briefly to resume normal operation.
- If your keyboard is not equipped with a Stand by key, press any key to resume normal operation.
- For troubleshooting information, you can search Windows Help.

1. Click **Start** in the Windows taskbar and select **Help and Support**. The **VAIO Help And Support Center** menu appears.
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About System Security

This section provides information about keeping your computer operating smoothly and protecting against potential threats to your computer's security.

How can I protect my computer against security threats, such as viruses?

The Microsoft® Windows® operating system is preinstalled on your computer. The best way to protect your computer against security threats, such as viruses, is to download and install the latest Windows updates regularly.

You can get important Windows updates by doing one of the following:

- **The Automatic Updates** feature — This feature automatically searches for and delivers updates directly to your computer whenever you are connected to the Internet.
- **The Windows Updates Web site** — This site enables you to download computer updates without turning on the **Automatic Updates** feature.

Your computer must be connected to the Internet before you can receive updates.

To use the Automatic Updates feature

1. Connect to the Internet.
2. Click the **Automatic Updates** icon in the Taskbar notification area.

   The **Automatic Updates Setup Wizard** appears.
3. Click **Next**, and follow the on-screen instructions to set up automatic or scheduled updates.

To visit the Windows Updates Web site

1. Connect to the Internet.
2. Type http://windowsupdate.microsoft.com/ in the address bar of your browser.

   The **Microsoft Windows Update** and **Security Warning** windows appear.
3. In the **Security Warning** window, click **Yes to install and run Windows Update.**
4. In the **Microsoft Windows Update** window, click **Scan for updates**, and follow the on-screen instructions.

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How do I keep my preinstalled antivirus software updated?

You can keep the preinstalled Norton Internet Security software program current with the latest updates from Symantec Corporation.

To download and install the latest security update

1. Double-click the **Norton Internet Security** icon in the Taskbar notification area.

   If you have not previously registered the antivirus software, a series of information wizards appear.

   1. Follow the on-screen instructions to complete each wizard
   2. Double-click the **Norton Internet Security** icon again.

      The **Norton Internet Security** window appears.

   If you have previously registered this antivirus software, the **Norton Internet Security** window automatically appears.

2. Click **Live Update**, located near the top of the window.
3. Follow the on-screen instructions to select and download updates.

About Media Center

The Microsoft® Windows® XP Media Center Edition operating system is not installed on all VAIO Digital Studio® computers. See your online specifications sheet for more information about your computer's configuration.

Why doesn't the REW button on the remote control work when I use My Music?

The REW button does not "rewind" music files. Instead, press Replay on your remote control for a similar function.

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The REW button does not "rewind" music files. Instead, press Replay on your remote control for a similar function.

Why aren't my song information edits visible in My Music?

If you record a song in OpenMG ATRAC format and make edits, such as title, artist, or genre, using SonicStage software, the changes become visible when the music file is played in My Music. If you make changes to a music file using Media Center, the changes are not visible when played in SonicStage software.

Why do my song information edits revert to the original content when I use My Music?

When you record songs with SonicStage software, and then use Windows® Media Player software to edit the song's information, you may not see your changes when you play the song in My Music. Windows Media Player supports playback of songs recorded in OpenMG (ATRAC3 or ATRAC3+) format, but does not support any edits made to the OpenMG format music files. Use SonicStage software to edit song information for music files that are recorded in OpenMG format.

Why do my optimized music files take so long to appear in My Music?

When you use SonicStage software to optimize music files to ATRAC3 or ATRAC3+ format, it may take a few moments for the music files to be available in My Music. To access these files sooner, start Windows Media Player software first, and then play the song with My Music.

Why do I get the error message, "The input media is invalid" when I try to play an MP3 file in My Music?

If you have added cover art to the MP3 file using SonicStage software, your file may contain an unsynchronized ID3v2 header. Media Center and Windows Media Play software programs cannot support playback of this file.

You can go to Microsoft® and download a patch to resolve this issue[1], as follows:

1. Go to http://support.microsoft.com.
2. Enter **814129** in the **Search the Knowledge Base** text box.
3. Click on the topic, **FIX: Error in Windows Media Player 9 Series When You Play Specific MP3 Files** located in the **Summaries: Search Results** area.
4. Follow the on-screen instructions to download and install the patch.

[1] The location of this information is subject to change or removal without prior notice

Why won't My Music show the albums (playlists) I recorded with SonicStage software?

Playlists (albums) recorded with SonicStage software may not be immediately available in the Media Center Album window. To access these files sooner, start Windows® Media Player software first, and then play the song with My Music.

Why did my Click to DVD software recording session capture television instead of video?

If Media Center starts a scheduled TV recording while you are capturing analog video with Click to DVD® software, the TV programming may be captured instead of the video and the timed recording may fail. Media Center and the analog capture feature of Click to DVD software both require the use a TV tuner/MPEG encoder card and cannot access the card at the same time.

To avoid recording conflicts:

- Do not open Media Center while capturing analog video using Click to DVD or Click to DVD Automatic Mode software.
- Do not schedule a TV recording to start while capturing analog video, using Click to DVD or Click to DVD Automatic Mode software. If a scheduled TV recording is already set, cancel it or postpone the analog recording until the scheduled TV recording has finished.

Why can't I view or record a movie when my computer is connected to an external device, such as a VCR or DVD player, or when I am using an analog input connection?

If you see a blue background in the View window, the movie may be copyright-protected. Your computer is not able to display or record a video or DVD that is copyright-protected by Macrovision or CGMS-A (Copy Generation Management System - Analog). Media Center software does not support recording a movie using analog input from external devices, such as a VCR, DVD player, or Digital video camera.

Why can't I fast forward or rewind a video?

The rewind and fast forward features are not supported by all video formats. Try using the Skip or Replay buttons, which provides a similar function.

How do I use the Media Center software or remote control to adjust my monitor when viewing TV programs?

Media Center software and remote control do not have video adjustment capability. Use the controls on the monitor to adjust video settings, such as contrast, hue, and brightness. See the information provided with your monitor for instructions on adjusting its video controls.

What can I do if my computer freezes and restarts while I'm watching a DVD or live TV?

Verify that the monitor refresh rate is set to 60 Hz, using the following steps:

1. Right-click on the desktop, and click **Properties** from the shortcut menu.

   The **Display Properties** window appears.

2. Click the **Settings** tab, and then click **Advanced**.

3. Click the **Monitor** tab, and in the **Monitor settings** box, confirm the screen refresh rate is set to 60 Hertz.

4. If the refresh rate is not set to 60 Hz, click the drop-down arrow, and select **60 Hertz**.

Why doesn't my mouse work properly?

- Confirm that the mouse is plugged securely into the mouse port. If you are using a USB mouse, verify that the mouse is plugged securely into the appropriate USB port.
- Save and close all open software programs. Turn off your computer, wait approximately 10 seconds, and then restart your computer.
- If your mouse is not working, press **ALT + F4,** to close all open software programs and turn off the computer.
- The mouse driver(s) may not be working properly.

Using an optical mouse

If you are using an optical mouse[1], use an appropriate surface to ensure proper mouse tracking. A good surface requires a certain amount of detail or texture to enable mouse tracking.

- Use surfaces such as plain paper, card stock, or fabric that do not have a lot of repetitive patterning.
- Avoid surfaces such as mirrors, smooth glass, or magazines.
- Avoid possible damage to easily-scratched surfaces by using a mouse pad.
- Avoid surfaces that may damage or soil your optical mouse. Dirt or damage may cause the mouse to malfunction.
- If the cursor is not moving properly, try using the mouse on another surface or using a mouse pad.

Using a standard ball mouse

If you are using a standard ball mouse, there may be dust or dirt inside the mouse mechanism. To clean the mouse, follow these steps:

1. Save and close all software programs, and turn off your computer.
2. Turn the mouse upside down.
3. Remove the mouse ball cover on the back of the mouse by turning clockwise the ring that covers the mouse ball.
4. Turn the mouse upright, and drop the mouse ball into your hand.
5. Using a piece of tape, remove any dust or dirt on the mouse ball and inside the mouse ball socket.
6. Return the mouse ball to the socket, and replace the mouse ball cover. Secure the cover by turning the ring counter-clockwise.

Using a wireless optical mouse

If you are using a wireless optical mouse:

- Confirm that the supplied AA batteries are properly installed.
- To maintain good communication, operate your wireless mouse within the distance limitations of the mouse[2].
- Press the **CONNECT** button on the mouse and the computer to reestablish the connection between the two devices.
- Verify the infrared receiver on the computer's front panel is free of obstructions that may prevent proper operation.
- Avoid using radio-controlled toys or equipment, CB radios, and other wireless devices in the area near your wireless mouse. These devices may cause interference, causing your mouse to stop working properly.
- Do not place metal furniture near your computer or wireless mouse, as this may create interference, causing your mouse to stop working properly.

Do not mix old (used) and new batteries when replacing batteries in the wireless mouse. Always use the same type and manufacture of battery — do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the mouse.

[1] For wireless or standard optical mice.

[2] Operate the mouse, VGP-WMS1, within 32 feet of the computer.
Operate the mouse, PCVA-MS2, within 2.5 feet of the computer.

Why doesn't my mouse work properly?

- Confirm that the mouse is plugged securely into the mouse port. If you are using a USB mouse, verify that the mouse is plugged securely into the appropriate USB port.
- Save and close all open software programs. Turn off your computer, wait approximately 10 seconds, and then restart your computer.
- If your mouse is not working, press **ALT + F4,** to close all open software programs and turn off the computer.
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- Avoid using radio-controlled toys or equipment, CB radios, and other wireless devices in the area near your wireless mouse. These devices may cause interference, causing your mouse to stop working properly.
- Do not place metal furniture near your computer or wireless mouse, as this may create interference, causing your mouse to stop working properly.

Do not mix old (used) and new batteries when replacing batteries in the wireless mouse. Always use the same type and manufacture of battery — do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the mouse.

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How do I set up my mouse for left-hand use?

1. Click **Start** in the Windows taskbar, then click **Control Panel**.
2. Click **Printers and Other Hardware**, then click **Mouse**. The **Mouse Properties** dialog box appears.
3. From the **Buttons** tab, select **Switch primary and secondary buttons** under the **Button Configuration** options.
4. Click **Apply**, then click **OK**.

Why doesn't my keyboard work properly?

- Check that the keyboard[1] is securely plugged into the keyboard port.
- Save and close all open software programs. Turn off your computer, wait approximately 10 seconds, and then restart your computer.
- If you are using a wireless keyboard:
  - Confirm that the supplied AA batteries are properly installed.
  - To maintain good communication, operate your wireless keyboard within the distance limitations of keyboard [2].
  - Press the **CONNECT** button on the keyboard and the computer, to reestablish the connection between the two devices.
  - Verify the infrared receiver on the computer's front panel is free of obstructions that may prevent proper operation.
  - Avoid using radio-controlled toys or equipment, CB radios, and other wireless devices in the area near your wireless keyboard. These devices may cause interference, causing your keyboard to stop working properly.
  - Do not place metal furniture near your computer or wireless keyboard, as this may create interference, causing your keyboard to stop working properly.

Do not mix old (used) and new batteries when replacing batteries in the wireless keyboard. Always use the same type and manufacture of battery — do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the keyboard.

[1] Some VAIO computer models are equipped with a built-in keyboard.

[2] Operate the keyboard, VGP-WKB1, within 32 feet of the computer.
Operate the keyboard, PCVA-KB6, within 2.5 feet of the computer.

Why is my modem connection slow?

Many factors can influence modem connection speed, such as:

- Telephone line noise.
- Incompatibility with other telephone equipment such as fax machines or other modems.
- Internet Service Providers (ISP) connection capability may vary.

If you think your modem is not connecting properly to other PC-based modems, fax machines, or your ISP, check the following:

- Contact your telephone company and ask them to verify that your telephone line is free from line noise.
- If your problem is fax-related, check that there are no problems with the fax machine you are calling and that it is compatible with fax modems.
- For optimum performance, verify that your ISP point of presence (POP) telephone number is compliant with V.90 standards.
- If you are having a problem connecting with your ISP, check that they are not experiencing technical problems.
- Try connecting your modem through another telephone line, if available.

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- If you are having a problem connecting with your ISP, check that they are not experiencing technical problems.
- Try connecting your modem through another telephone line, if available.

Why doesn't my modem work properly?

Your modem may be experiencing equipment or software conflicts. If your modem is not functioning properly, check the following:

- Check that the telephone line is properly plugged into the modem line jack.
- Check that the telephone line is working properly. You can verify the line by plugging in an external device such as a standard telephone or fax machine and listening for a dial tone.
- Check that the access telephone number (POP) is correct.
- All software programs that are preinstalled by Sony are compatible with your computer's modem. If you have installed other software, contact the software publisher for information on how to configure the software in order to recognize the modem.
- If it appears that your modem is not functioning properly, check the device status.

    1. Click **Start** in the Windows taskbar, then click **Control Panel**.
    2. Click **Printers and Other Hardware** and then select **Phone and Modem Options**.
    3. From the **Modems** tab, click to select your modem.
    4. Click **Properties**. The **Modem Properties** window appears.
    5. Review the information in the **Device status** section. If your modem is not working properly, click the **Troubleshoot** button. The **Help and Support Center** window appears.
    6. Follow the on-screen instructions to resolve the problem.

- The modem driver(s) may not be working properly.

How do I change my modem to rotary or touch-tone dialing?

1. Click **Start** in the Windows taskbar, then click **Control Panel**.
2. Click **Printers and Other Hardware**, then click **Phone and Modem options**.
3. From the **Dialing Rules** tab, click **Edit**. The **Edit Location** dialog box appears.
4. Select the **Tone** or **Pulse** option. Click **OK**.

How do I set up a dial-up connection?

After you have connected your computer's modem to a telephone wall jack, follow these steps to set up your dial-up connection to the Internet:

1. Click **Start** from the Windows taskbar and select **All Programs**.
2. Point to **Accessories**, point to **Communications**, and then click **New Connection Wizard**. The **New Connection Wizard** appears.

   ✍ The **Location Information** and the **Phone and Modem Options** windows appear, when using your computer for the first time. Enter your information as requested and continue to the **New Connection Wizard** window.

3. Follow the on-screen instructions to finish setting up your dial-up connection.

About the Speakers

Why is there no sound in any software program?

- Check that the speakers are plugged into the Headphones jack.
- If your speakers have a mute button, verify that it is turned off.
- If your speakers are powered by batteries, verify that the batteries are inserted properly and that they are charged.
- If your speakers use an external power source, verify that the power cord is plugged into a grounded wall outlet or power strip.
- If your speakers have volume control, check the volume level.
- You may not hear sound from your speakers if headphones are connected to your computer.
- If the software program you are using has its own volume control, check that the volume is turned up.
- Check the volume controls in the Windows® operating system using these steps:

    1. Click **Start** in the Windows taskbar, then select **Control Panel**.
    2. Select **Sounds, Speech, and Audio Devices**, then click **Adjust the system volume**.
    3. From the **Volume** tab, adjust the Device volume by moving the slider bar to the desired sound level. Verify that the **Mute** option is not selected.

- Check that the **Mute** check box is not selected in the **Volume Control** window.
- The sound driver(s) may not be working properly.

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- The sound driver(s) may not be working properly.

Why is the S/PDIF option disabled in the Microsoft® Windows® XP Media Center software program?

S/PDIF is enabled in Media Center[1] by changing the DVD settings. This feature is disabled because the appropriate output setting is not selected in the InterVideo® WinDVD® software program's audio setup.

To change audio settings in the WinDVD software program

1. Click **Start** in the Windows® taskbar, and point to **All Programs**.
2. Point to **InterVideo WindDVD 5**, and the click on **InterVideo WinDVD 5 for VAIO**.

   The **InterVideo WinDVD for VAIO** window opens.
3. Right-click in the **WinDVD** window.

   A shortcut menu appears.
4. Click **Setup...**, to view the **Setup** dialog box.
5. Select the **Audio** tab.
6. From the section, **Audio Speaker Configuration**, select **6-channel speaker (5.1 Home Theater)** or the desired speaker configuration.

   To enable S/PDIF, go to **Audio Output Configuration** and select **Digital (S/PDIF) out to External Processor**.
7. Click **Apply**, and then click **OK**.

InterVideo® software automatically detects the type of speaker system. You may notice that some options are disabled or are not available.

[1] The Microsoft Windows XP Media Center Edition operating system is installed on certain VAIO® computers. See your specifications sheet for details on your computer's configuration.

Why can't I hear dialogue during DVD movie playback, using my 5.1 channel[1] speaker system?

- Verify that your speaker system is connected correctly.
- Change the computer's audio settings to 6-channel, to match your 5.1 speaker system.
  - Change the audio settings in the RealTek® Sound Effect Manager software program.
  - Change the audio settings in the InterVideo® WinDVD® software program.
  - Change the audio settings in the Media Center software program's DVD settings.

[1] Your computer's supplied accessories may not include a 5.1 channel speaker system. See your specifications sheet for details on your computer's supplied accessories.

About Using a Microphone

Why doesn't my microphone work properly?

Check that the microphone is plugged into the Microphone jack.

About Using a Microphone

Why doesn't my microphone work properly?

Check that the microphone is plugged into the Microphone jack.

Why is my microphone so sensitive to background noise?

If you find there is too much background noise when you record sound, you should adjust the microphone by following these steps:

1. Click **Start** in the Windows taskbar, then click **Control Panel**.
2. Click **Sounds, Speech, and Audio Devices**, then click **Sounds and Audio Devices**.
3. From the **Audio** tab, locate the **Sound recording** section and click **Volume**. The **Recording Control** dialog box appears.

   If the volume control for the microphone is visible, skip to step 6.
4. Select the **Options** menu and click **Properties**. The **Properties** dialog box appears.
5. In the section, **Show the following volume controls**, click to select the **Microphone** check box. Click **OK**.
6. From the **Recording Control** dialog box, decrease the microphone volume level by moving the slider bar down.
7. Close the **Recording Control** dialog box and then close the **Sounds and Audio Devices Properties** window.

How do I install a printer?

- Connect your USB or IEEE 1394 printer to the appropriate port on your computer's front, back or side panels[1]. If your printer has a USB, IEEE 1394, or infrared connection, contact the printer manufacturer for information or updates that may be required for proper installation.
- Check the printer manufacturer's Web site for the latest drivers for your operating system before proceeding with installation. Some printers do not function properly without the updated drivers for specific operating systems.
- To install your printer, follow these steps:

  1. Click **Start** in the Windows taskbar, then click **Control Panel**.
  2. Click **Printers and Other Hardware**, then click **Add a Printer**.

     The **Add Printer Wizard** appears.
  3. From the **Add Printer Wizard**, click **Next**.
  4. Select **Local Printer**, then click **Next**.

     Place a check mark in the box, **Automatically detect and install my Plug and Play printer**, if you are installing a recently manufactured printer equipped with Plug and Play capability.
  5. Select the appropriate port, usually LPT1 if using the parallel port, and then click **Next**.
  6. Select the appropriate printer manufacturer and model.
  7. Follow the on-screen instructions to print a test page and complete printer installation.

- If the printer is not included in the list, but the printer manufacturer provides a disk with the appropriate Windows XP Printer driver:

  1. Choose **Have Disk**.
  2. Enter the appropriate path for the disk or CD, and click **OK**.

- If the printer is not included in the list, and no drivers are provided with the printer:

  1. Select a similar printer that your printer may emulate.
  2. Refer to the user manual or guide supplied with your printer.
  3. Visit the printer manufacturer's Web site for technical support.

[1] The location of the connection ports for peripheral equipment may vary, depending upon your computer's hardware configuration.

How do I install a printer?

- Connect your USB or IEEE 1394 printer to the appropriate port on your computer's front, back or side panels[1]. If your printer has a USB, IEEE 1394, or infrared connection, contact the printer manufacturer for information or updates that may be required for proper installation.
- Check the printer manufacturer's Web site for the latest drivers for your operating system before proceeding with installation. Some printers do not function properly without the updated drivers for specific operating systems.
- To install your printer, follow these steps:

  1. Click **Start** in the Windows taskbar, then click **Control Panel**.
  2. Click **Printers and Other Hardware**, then click **Add a Printer**.

     The **Add Printer Wizard** appears.
  3. From the **Add Printer Wizard**, click **Next**.
  4. Select **Local Printer**, then click **Next**.

     Place a check mark in the box, **Automatically detect and install my Plug and Play printer**, if you are installing a recently manufactured printer equipped with Plug and Play capability.
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  1. Select a similar printer that your printer may emulate.
  2. Refer to the user manual or guide supplied with your printer.
  3. Visit the printer manufacturer's Web site for technical support.

[1] The location of the connection ports for peripheral equipment may vary, depending upon your computer's hardware configuration.

The connected printer does not function properly when the computer resumes from a power saving mode.

- Clear the printer memory by turning the printer off for approximately 10 seconds, and then turning it back on.
- If your printer does not resume normal operations, try restarting your computer.

Notes On Use

The information in this section provides basic procedures for handling your computer and common peripheral devices, and using storage media.

- About the Power Source
- About Handling the Computer
- About Using a Monitor (Display)
- About Disposing of the Lithium Battery
- About Recording and Data Storage Media

About the Power Source

Before opening your computer, turn the computer off and let it cool down for 10 minutes. This protects you against internal components that may be too hot to handle.

- Your computer operates on 100-220 V AC 50/60 Hz only.
- Plug all the power cords for your computer and its peripheral equipment into the same AC supply line. AC derived from different supply lines may result in voltage differences that can cause unstable operation or unwanted weak currents at the time of connection.
- Do not share the AC outlet with any other power-consuming equipment, such as copying machines or shredders.
- You can purchase a power strip with a surge protector. This device prevents damage to your computer caused by sudden power surges such as those that may occur during an electrical storm.
- If you live in an area that experiences frequent power fluctuations, you may want to purchase an Uninterruptible Power Supply (UPS). This device contains both a surge protector and a battery backup. The surge protector prevents damage to your computer caused by power surges. The battery backup safeguards your data during a brief period of power loss.
- The power control button on the front panel does not turn off the AC power. To remove power from the computer, you must turn it off and then unplug the AC power cord from the wall outlet or power strip.
- Do not place heavy objects on the power cord.
- Do not operate the computer with the cover removed. Always reinstall the cover before turning it on.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- Unplug your computer from the wall outlet if you do not intend to use the computer for a long time.
- Do not attempt to open the power supply. There are no user-serviceable parts in the power supply. To avoid personal injury or damage to your equipment, refer the repair or replacement of the power supply to qualified personnel only.

About Handling the Computer

Your computer uses high-frequency radio signals and may cause interference to radio or TV reception. If this occurs, relocate the computer a suitable distance away from the TV or radio equipment.

- Do not place your Sony computer in a location subject to:
  - Heat sources, such as radiators or air ducts
  - Direct sunlight
  - Excessive dust
  - Mechanical vibration or shock
  - Strong magnets or speakers that are not magnetically shielded
  - Ambient temperature of more than 95ºF (35ºC) or less than 50ºF (10ºC)
  - High humidity, moisture, or rain
- Do not place electronic equipment near your computer. The computer's electromagnetic field may cause a malfunction.
- Provide adequate air circulation to prevent internal heat build-up. Do not place your computer on loose surfaces (such as rugs or blankets) or near materials (such as curtains or draperies) that may block its ventilation slots. Leave a space of at least 8 inches from the back panel of your computer.
- Clean the cabinet with a soft, dry cloth or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine, as it may damage the finish of your Sony computer.
- Should any solid object or liquid fall into the cabinet, keyboard, or mouse, shut down your computer and then unplug it. You may want to have the computer checked by qualified personnel before operating it any further.
- Use only specified peripheral equipment and interface cables; otherwise, problems may result.
- Do not use cut or damaged connection cables.
- Always switch the power off before connecting your computer to peripheral equipment; otherwise, damage may occur to the integrated circuits in your computer.
- Your computer, keyboard, and mouse consist of high-precision electronic parts. Do not drop them or bump them against other objects.
- Your Sony computer does not work with party lines, cannot be connected to a coin-operated telephone, and may not work with multiple telephone lines or a private branch exchange (PBX).
- If the telephone company makes a service call to your home or office and determines that your computer is responsible for the problem, the telephone company may bill you for the service call. If you do not disconnect your computer when it is adversely affecting the telephone line, the telephone company has the right to disconnect your service until you correct the problem.

Moisture condensation

If your computer is brought directly from a cold location to a warm one, moisture may condense inside your computer. In this case, allow at least an hour before turning on your computer. If any problem occurs, unplug your computer, and contact your Sony Service Center.

Wireless devices

Wireless devices, such as a wireless keyboard or mouse, requires unobstructed communication with your computer for proper operation.

- Do not exceed a maximum distance of 2 feet between your VAIO® computer and your wireless device.
- Verify that any infrared receiver(s) on the computer or wireless device is free of obstructions that may prevent proper operation.
- Confirm that the supplied AA batteries are properly installed in the wireless device.

- Use the **CONNECT** buttons on the wireless device and your computer, if available, to establish communication between the equipment.

- Avoid using radio-controlled toys or equipment, CB radios, and other wireless devices in the area near your wireless keyboard. These other devices may cause interference, causing your wireless keyboard or mouse to stop working properly.

- Do not place metal furniture near your computer or wireless device, as this may create interference, causing your wireless device to stop working properly.

The hard disk drive

- Do not place the computer in a location that is subject to vibration or shock.

- Do not move the computer during operation.

- Do not subject the computer to sudden changes in temperature.

- Do not turn off the power while the computer is accessing the hard disk drive.

Optical mouse

An optical mouse requires an ideal surface texture in order to provide precision pointing and tracking.

- Use surfaces such as plain paper, card stock, or fabric that have minimal repetitive patterning.

- Avoid surfaces such as mirrors, smooth glass, or magazines that have halftone printing.

- DVD playback and certain video-related software may not function correctly when your monitor is set to a high refresh rate. If your monitor does not play back video content properly, try setting the display to a lower refresh rate.
- Do not place the display near a strong magnetic force.
- Do not block the ventilation slots on the display.
- Using the computer in low temperature conditions may produce a residual image on the screen. This is not a malfunction. When the computer returns to normal temperature, the screen returns to normal.
- A residual image may appear on the screen if the same image is displayed for a lengthy period of time. The image disappears after a period of time. You can use a screen saver to prevent residual images.
- The screen becomes warm during operation. This is normal and does not indicate a malfunction.

About handling an LCD monitor[1] (display)

- Do not place the display near a strong magnetic force.
- Do not block the ventilation slots on the display.
- Using the computer in low temperature conditions may produce a residual image on the screen. This is not a malfunction. When the computer returns to normal temperature, the screen returns to normal.
- A residual image may appear on the screen if the same image is displayed for a lengthy period of time. The image disappears after a period of time. You can use a screen saver to prevent residual images.
- The screen becomes warm during operation. This is normal and does not indicate a malfunction.
- Do not leave the LCD in direct sunlight, as this may damage the screen. Use caution when using the computer near a window.
- Do not exert pressure on the LCD or scratch the surface, as this may cause the screen to malfunction.
- The LCD screen is manufactured using high-precision technology. On occasion, you may see tiny black or colored points on the LCD. This is normal and does not indicate a malfunction.
- Avoid rubbing the screen, as this can damage the LCD. Use a soft, dry cloth to clean the display.

Monitor setup

You can verify your monitor's settings before video playback.

- Color quality: Use factory default settings (32-bit).
- Screen resolution: Set to 1024 x 768 pixels. Using other display settings may cause an improper screen image or a poor TV/video recording.

  Some displays may require the screen resolution to be set to 1280 x 1024 pixels. For information on your display's setting requirement, see the instructions supplied with your display.
- Check your display setup in the Microsoft® Windows® operating system before starting up video playback or recording software. For more information, refer to the monitor's operating manual.
- Do not change the display setup while recording TV or video. Your computer may operate improperly and provide a poor TV/video recording.

[1] The PCV-W and PCV-V series models have a built-in LCD monitor.

About Disposing of the Lithium Battery

Dispose of the lithium battery properly. In some areas, the disposal of lithium batteries in household or business trash may be prohibited. You can return your unwanted lithium batteries to your nearest Sony Service Center or Factory Service Center. For the Sony Service Center nearest you, visit the Sony online support Web site at http://www.sony.com/pcsupport .

Do not handle damaged or leaking lithium batteries. The lithium battery may explode if mistreated. Do not disassemble it or dispose of it in fire.

Replace the battery with a Sony CR2032 lithium battery. Using a type of battery other than a CR2032 may present a risk of fire or explosion.

About Recording and Data Storage Media

Handling CD or DVD media

- Do not touch the surface of the disc.
- Do not drop or bend the disc.
- Do not use adhesive labels to identify the disc. The label may come off while the disc is in use in the optical drive and damage the drive.

Cleaning CD or DVD media

- Fingerprints and dust on the surface of a disc may cause read errors. Proper care of the disc is essential to maintain its integrity. Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray, as they may cause damage to the disc.
- For normal cleaning, hold the disc by its edge and use a soft cloth to wipe the surface from the center out.
- If the disc is badly soiled, moisten a soft cloth with water, wring it out well, and use it to wipe the surface of the disc from the center out. Wipe off any remaining moisture with a dry soft cloth.

Using Memory Stick media

- MagicGate Memory Stick and Memory Stick PRO media are the only media that support MagicGate technology. Currently, Sony® SonicStage and OpenMG software are not compatible with the new Memory Stick PRO media. Sony suggests using only the MagicGate Memory Stick media to store and transfer any data created with SonicStage and OpenMG software.
- VAIO® computers may not support all of the high-speed data transfer or access control features of the new Memory Stick PRO media. You can use the new Memory Stick PRO media as you would use a standard Memory Stick® media.
- Visit the Sony online support Web site at http://www.sony.com/pcsupport regularly for the latest information on the new Memory Stick PRO media.

Using memory cards

Certain VAIO® computers support CompactFlash®, MultiMediaCard (MMC), Microdrive , SmartMedia , xD-PictureCards and Secure Digital (SD) memory cards. For more information about installed memory card reader(s), see your computer's specifications sheet at http://www.sony.com/pcsupport. Visit the Sony online support Web site regularly for the latest information on compatible memory cards.

- Always insert the correct memory card into the appropriate memory card reader.
- Do not attempt to insert a different memory card or memory card adapter into a different memory card reader. An incompatible memory card or adapter may be difficult to remove from the wrong reader and can cause damage your computer.
- Use care when inserting or removing a memory card from the reader. Do not force the memory card in or out of the reader.

Handling floppy disks[1]

- Do not open the shutter manually and touch the surface of the floppy disk.
- Keep floppy disks away from magnets.
- Keep floppy disks away from direct sunlight and other heat sources.

[1] Certain VAIO computers are not equipped with a floppy disk drive. You can purchase a floppy disk drive separately. See the online specifications sheet for more information about your computer's hardware configuration.

Support Options

Sony provides several options to help solve common problems or to locate support for your VAIO® computer. This section describes all available resources and offers suggestions on how to access this information for maximum results.

- Immediate Help and Support
- Software Help and Support
- Resources for Additional Help and Support

Immediate Help and Support

You can locate helpful information immediately by consulting your hard copy guides and supplements, or by accessing the online Computer User Guide and individual software Help files.

Your computer is supplied with these support options:

- **VAIO® Computer Quick Start**[1] **—** The Quick Start contains information on how to set up your computer quickly and easily. You can find instructions on how to connect power cords, cables, peripheral devices, and register your computer with Sony®. The Quick Start can also provide basic troubleshooting support.
- **VAIO® Computer Welcome**[2] **—** This supplement provides information about supplied accessories and your computer's hardware configuration.
- **About RAID Systems**[3] — Contains an overview of RAID-0 and RAID-1 levels, along with simple instructions on RAID configuration.
- **VAIO® Recovery Options Guide** — Provides information about restoring individual software programs, software drivers, drive partition(s), or your entire hard disk drive to the original factory installed settings.
- **VAIO® Computer User Guide —** The online User Guide provides information about configuring, maintaining, and upgrading your computer. This support resource offers a variety of available topics, enabling you to quickly view specific information using context-sensitive search features. To access the online guide:

  1. Click **Start** in the Windows® taskbar, then click **Help and Support**.
  2. From the **VAIO Help And Support Center** menu, click **VAIO User Guide**.

- **Specifications** — The online specifications sheet describes the hardware and software configuration of your VAIO computer. To view the online specifications sheet:

  1. Connect to the Internet.
  2. Go to the Sony online support Web site at *http://www.sony.com/pcsupport*.
  3. Click the **Documentation button** and follow the on-screen instructions to locate your model's specifications sheet.

- **Preinstalled software Help files —** Each preinstalled software program provides online Help within the software, that describes the software's features. In these Help files, you can find tutorials that teach you to use the software and locate troubleshooting support, should problems occur. To access software Help files:

  1. Click **Start** in the Windows taskbar and point to **All Programs**. A submenu appears, listing all preinstalled software programs.
  2. Click the desired software program.[4] The software's main window appears.
  3. From the menu bar, click **Help**. The software program's **Help** appears.

- **VAIO Software** — This feature provides specific information on preinstalled software on your computer.

  To access this online software information

  1. Click **Start** in the Windows taskbar.
  2. Click **Welcome to VAIO life**.

[1] Certain VAIO® computers are not supplied with the Quick Start guide, they are supplied with the ***VAIO® Computer Welcome***.

[2] Certain VAIO® computers are not supplied with the Welcome supplement, they are supplied with the ***VAIO® Computer Quick Start***.

[3] This booklet is only supplied with certain VAIO® computers that have RAID capability or are RAID-ready. See the online specifications sheet for details about your computer's hardware configuration.

[4] You can locate the online Help for Sony® software programs by pointing to the individual software program's icon and selecting Help from the submenu.

Software Help and Support

Technical support information for the preinstalled software on your computer is located in this section. Sony software support is free of charge for 90 days after the original date of purchase.

Your computer may not be supplied with all of the software discussed in this section, depending on the computer purchased. To view information about the specific software preinstalled on your computer, see the software program's online Help.

Adobe® Photoshop® Elements, Photoshop® Album, Premiere®, Reader®
Adobe Systems, Inc.

Web site http://www.adobe.com

telephone 800-685-3652

hours M - F, 6 AM - 5 PM PST

America Online® (Broadband or Dial-Up)
America Online, Inc.

Web site http://www.aol.com

AOL® Instant Messenger™
America Online, Inc.

Web site http://www.aim.com

Click to DVD™
Sony Electronics Inc.

At the touch of a button, Click to DVD software enables you to automatically burn DVDs from a digital video (DV) device. Create DVDs by capturing video content straight from a DV device or by importing video from stored files. You can also edit the video. Create DVD photo albums and slide shows with picture files or by importing pictures from a digital still camera. What's more, you can easily give a professional look to your DVDs by adding chapter menus, backgrounds, and menu screens. You are only a few clicks away from enjoying your own DVDs!

Web site http://www.sony.com/pcsupport

telephone 888-4-SONY-PC (888-476-6972)

hours 7 days a week, 24 hours a day

DVgate Plus
Sony Electronics Inc.

Connect a compatible digital video camera to your computer's i.LINK® port and capture video clips and still images. Edit clips from your video, add new clips, and combine clips into new movie segments. Save your movies back to your digital video camera or in a variety of popular file formats.

Web site http://www.sony.com/pcsupport

telephone 888-4-SONY-PC (888-476-6972)

hours 7 days a week, 24 hours a day

Microsoft® Internet Explorer
Microsoft Corp.

Web site http://www.support.microsoft.com

Microsoft® Windows Media® Player
Microsoft Corp.

Web site http://www.support.microsoft.com

Microsoft® Windows® Movie Maker
Microsoft Corp.

Web site http://www.support.microsoft.com

Microsoft® Works
Microsoft Corp.

Web site http://www.support.microsoft.com

MoodLogic
MoodLogic, Inc.

Web site http://www.moodlogic.com/support

e-mail help@moodlogic.com

Netscape® Internet Service
America Online, Inc.

Web site http://isp.netscape.com/help

Telephone 866-541-8233

Norton Internet Security (90 day trial version)
Symantec Corp.

Web site http://www.symantec.com/techsupp

PictureGear Studio
Sony Electronics Inc.

PictureGear Studio is picture management software that can display photos from your hard drive or a Sony digital still camera. The photos appear in a convenient light-table format so that you can easily view the contents of an entire folder, create your own photo albums, and make prints.

Web site http://www.sony.com/pcsupport

telephone 888-4-SONY-PC (888-476-6972)

hours 7 days a week, 24 hours a day

Quattro Pro®
Corel Corporation

Web site http://www.corel.com

Quicken® New User Edition
Intuit Inc.

Web site http://www.intuit.com/support

RecordNow!®
Sonic Solutions

Web site http://support.sonic.com

SonicStage
Sony Electronics Inc.

The SonicStage software program gives you all the tools you need to manage music files on your computer. SonicStage software delivers high-quality digital audio storage, a sleek player skin design, and audio CD-burning capability.

Web site http://www.sony.com/pcsupport

telephone 888-4-SONY-PC (888-476-6972)

hours 7 days a week, 24 hours a day

SonicStage Mastering Studio
Sony Electronics Inc.

Use SonicStage® Mastering Studio software to record songs from analog records or cassette tapes into your computer and then burn them to CD-R or CD-RW media. You can also output this music to audio files in WAV format.

Web site http://www.sony.com/pcsupport

telephone 888-4-SONY-PC (888-476-6972)

hours 7 days a week, 24 hours a day

SpySubtract®
Intermute, Inc.

Web site http://www.intermute.com/support.html

VAIO Control Center
Sony Electronics Inc.

VAIO Control Center provides a central location that gathers resources to configure your VAIO® personal computer and view your computer's configuration and specifications

Web site http://www.sony.com/pcsupport

telephone 888-4-SONY-PC (888-476-6972)

hours 7 days a week, 24 hours a day

VAIO Edit Components
Sony Electronics Inc.

VAIO Edit Components is a software plug-in for Adobe® Premiere® software that provides maximum compatibility and video quality when capturing video with your Sony digital camcorder.

Web site http://www.sony.com/pcsupport

telephone 888-4-SONY-PC (888-476-6972)

hours 7 days a week, 24 hours a day

VAIO Media
Sony Electronics Inc.

VAIO Media software brings multimedia to your network, enabling you to share music, video, and picture files between your VAIO® computers. You can set up one or more computers as "media servers," that store your multimedia files and make them available to other compatible VAIO computers on your wired or wireless home network.

Web site http://www.sony.com/pcsupport

telephone 888-4-SONY-PC (888-476-6972)

hours 7 days a week, 24 hours a day

VAIO Update
Sony Electronics Inc.

The VAIO Update utility helps you maintain your VAIO® computer by regularly checking the Sony Online Support Web site for important software updates and up-to-date information for your specific computer model.

Web site http://www.sony.com/pcsupport

telephone 888-4-SONY-PC (888-476-6972)

hours 7 days a week, 24 hours a day

VAIO Zone
Sony Electronics Inc.

VAIO Zone software delivers an effortless way to browse and enjoy picture, music, and video files on your computer, all through an elegant, next-generation interface. You can enjoy media content stored on other VAIO® computers (media servers) on your network. VAIO Zone software enables you to record video and photo slide shows onto recordable DVD media, using VAIO computer models equipped with a recordable DVD drive. On VAIO computer models equipped with a built-in TV tuner, VAIO Zone software includes a complete personal video recorder, enabling you to record TV programs and burn them to DVD.

Web site http://www.sony.com/pcsupport

telephone 888-4-SONY-PC (888-476-6972)

hours 7 days a week, 24 hours a day

WinDVD® for VAIO®
InterVideo, Inc.

Web site http://www.intervideo.com/jsp/Support.jsp

telephone 510-651-0888

WordPerfect®
Corel Corporation

Web site http://www.corel.com

Resources for Additional Help and Support

If the information provided with your VAIO® computer does not offer an immediate solution, or you would like to get direct support, try these additional help and support resources.

Sony online support Web site

Online help and support are available 24 hours a day, seven days a week, when you visit the Sony online support Web site. You can access the Web site at http://www.sony.com/pcsupport.

The Sony online support Web site provides:

- Information about your specific computer model, such as
  - hardware and software specifications.
  - safety and legal information.
  - quick solutions to common problems.
- An automated tutorial library that contains interactive, easy-to-understand lessons on using your computer's hardware and software features.
- Links that enable you to:
  - quickly find the nearest Sony service center locations.
  - arrange for repairs or check repair status.
  - review warranty information.
  - e-mail your question or comments to the Sony Customer Information Services Center.
  - check pricing and availability for products, accessories and parts, as well as purchase online.
  - access the Sony Solutions Knowledge Base, a database that contains answers to many frequently asked questions.

Sony Customer Information Services Center

If other support options do not resolve your issue, you can contact a Sony Support representative directly.

Before making a call to the Sony Customer Information Services Center, have this basic information readily available.

1. VAIO® computer type.
2. Model number.
3. Serial number[1].

   Example:

4. Operating system.
5. Hardware feature or software program that has a problem. (See the online *VAIO® Computer User Guide* for the appropriate software technical support information.)
6. Brief description of the issue.

For VAIO® computers purchased in the U.S. and Canada, contact a Sony Support representative at 1-888-476-6972.

[1] The serial number is located on the back panel of your computer. The serial number is on a white barcode label.